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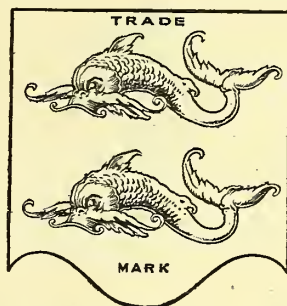
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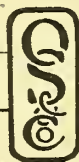
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INDEX TO ADVERTISERS

Addis, R., & Son (Toothbrushes) ..	10	Christy, T., & Co. (Dr. Page Barker's Scurf Lotion, Empire Tobacco, Pyshan Points Tea) ..	32-39-44	Freudentheil, Smith & Co. (Cod Liver Oil) ..	18
Addressograph, Ltd.	39	Clark, Cicero S. (Cachets) ..	44	Gajardo Perfumery Co., Ltd. (Toilet Preps.) ..	32
Armour & Co., Ltd. (Laboratory Products) ..	12	Coate & Co. (Axminster), Ltd. (Toothbrushes) ..	35	Gambles, J. C., & Co., Ltd. (Toilet Preparations) ..	26
Armstrong Cork Co., Ltd. (Corks) ..	36	Connell, A., & Co. (Essences, &c.) ..	22	Gardiner & Co. (The Scotch House), Ltd. (Overalls) ..	xvi
Association of Manfg. Chemists, Ltd. Cover-Col. Supp.	44	Cooper, Son & Co., Ltd. (Cachets) ..	44	George, Ernest J. (Valuer, &c.) Col. Supp.	31
Ayrton-Graham, Ltd. (Shopfittings) ..	44	Corry & Co., Ltd. (Tobacco Powder) ..	xxii	Gibbs, D. & W., Ltd. (Toilet Preps.) ..	31
Ayrton, Saunders & Co., Ltd. (Wholesale Druggists) ..	15	Cowles, E. (Coll. Tube Machinery) ..	34	Gladys Cooper's Beauty Preparations, Ltd.	27
Bath and West of England College ..	38	Cox, Arthur H., & Co., Ltd. (Dolphin Packed Chemicals) ..	1	Glaxo (Ostelin) ..	Leader Page
Battin, H., & Co., Ltd. (Chamomiles, &c.) ..	ii	Croda, Ltd. (Lanoline) ..	41	Gohin & Co. (Pty.), Ltd. ("Aspro") ..	44
Battle, J. C. M. (Vermin Killer) ..	xxii	Crookes Laboratories (Collosol Ferromalt) ..	xii	Gower, J. (Books) ..	Col. Supp.
Benckiser, J. A. (Tartaric Acid, &c.) ..	ix	Daisy, Ltd. (Headache Cure) ..	xi	Graesser-Monsanto Chemical Works, Ltd. (Chemicals) ..	Cover
Bengue, Dr., & Co.	x	De, S. N. (Drugs) ..	ix	Grout & Co., Ltd. (Crêpe Bandages) ..	xx
Berdoo & Fish (Valuers, &c.) ..	Col. Supp.	Dearborn (1923), Ltd. (Toilet Specialities) ..	26	Haller Laboratories, Ltd. (Danysz Virus) ..	xxii
Berk, F. W., & Co., Ltd. (Chemicals, &c.) ..	vi	Debacq & Harrop (Toilet Preps.) ..	30	Harker, C. R., Stagg & Morgan, Ltd. (Peldo) ..	28
Betts & Co., Ltd. (Collapsible Tubes) ..	36	Denver Chemical Manfg. Co. (Antiphlogistine) ..	xiv	Harley, T. (Rat Poison) ..	xxiii
Bewells, Ltd. (Little Black Devils) ..	x	Deshell Laboratories, Ltd. (Petro-lagar) ..	xv	Harrison, A., & Sons (Printing) ..	xxiii
Bidwells, Ltd. (Toothbrushes, &c.) ..	34	Dodge & Olcott Co. (Essential Oils) ..	23	Hawkins, L. G., & Co. (Vio-Ray Equipment) ..	9
Birmingham Envelope Co., Ltd. (Envelopes) ..	38	Dorin, Ltd. (Beauty Preps.) ..	32	Heppells, Ltd. (R. & B. Lysol) ..	46
Blythe, W., & Co., Ltd. (Chemicals) ..	vi	Douglas, J., Sons, & Co., Ltd. (Camera Cases) ..	xxi	Heymans, Rene, Ltd. (Enemas, &c.) ..	30
Bow's Liniment, Dr., Ltd.	x	Dudley & Co. (Cash Tills) ..	xviii	Higginole, Ltd. (Skin Ointment) ..	xiv
Brand & Co., Ltd. (Foods) ..	21	Eastern & Russian Trading Co., Ltd. (Santonin, &c.) ..	Cover	Himrod Manfg. Co. (Asthma Cure) ..	xiv
Brierley, J., & Co.	Col. Supp.	Edge, W., & Sons, Ltd. (Drummer Dyes Prize Scheme) ..	43	Hind & Lund, Ltd. (Machinery) ..	40
Bristol-Myers Co. (Ipana Tooth Paste) ..	xiii	Essenflour Products, Ltd. (Sandalwood Oil) ..	22	Honeywill Bros., Ltd. (Alcohol) ..	41
British Goodrich Rubber Co., Ltd. (Hot Water Bottles) ..	xix	Evans, Adlard & Co., Ltd. (Filter Papers) ..	43	Horlick's Malted Milk Co., Ltd.	19
Brown & Son (Stills) ..	40	Evan - Williams Co., Ltd. (Henna Shampoos) ..	44	Horne, L. A., & Sons (Drugs, &c.) ..	ii
Burrough, J., Ltd. (Wines) ..	Leader Page	Fennings, A. (Children's Cooling Powders) ..	Leader Page	Howards & Sons, Ltd. (Hydrogen Peroxide, &c.) ..	i
Burroughs Wellcome & Co., ("Hazeline" Cream) ..	47	Ferris & Co., Ltd. (Nepenthe) ..	xii	Jeffreys, Miller & Co., Ltd. (Malt Extract, &c.) ..	18
Bush, W. J., & Co., Ltd. (Perfumery, Soaps, &c.) ..	24	Field, C. W., Ltd. (Saponine Powder, &c.) ..	vi	Johnson & Sons Mfg. Chits., Ltd. (Chemicals) ..	iii
Campbell, J. D. (Nicotine Insecticides) ..	xxii	Fink, F., & Co. (Gums) ..	44	Josephs, Philip, & Sons, Ltd. 43-Col. Supp.	5
Carnrick, G. W., Co. (Endocrine Products) ..	xxiv	Florian & Armand, Ltd. (Toilet Preps.) ..	29	Kay Bros., Ltd. (Fly Catchers) ..	5
Cartwright, W. B., Ltd. (Aspirin Tablets) ..	7	Forhans (Dentifrice) ..	25	Kent, G. B., & Sons, Ltd. (Brushes) ..	33
Cataline Co. (Veterinary Medicines) ..	xxiii	Fowle & Boden, Ltd. (Agency, &c.) ..	16	Kerfoot, T., & Co., Ltd. (Mineral Spring) ..	17
Cellophane Co. (Wrapping Material) ..	20			Kirby, Douglas & Co., Ltd. (Kirby Waver) ..	28
Chemical Works, "Flora" (Ess. Oils) ..	23				

[Continued overleaf.]

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INDEX—cont.

Lang, Jules, & Son (Glassware)	42	Pillischer, J. (Clinical Thermometers)	xviii	Standard Glass & Hardware Co., Ld. (Glass Bottles, &c.)	35
Lautier Fils, Ld. (Ess. Oils)	22	Potter & Clarke, Ld. (Asthma Cure)	45	Stern, H. C. (Toilet Paper)	xix
Lax & Shaw, Ld. (Bottles)	20	Prideaux's Pure Casein Co., Ld. (Milk Food)	21	Sterns, Ld. (Oils, Petroleum, &c.) ..	41
Leigh, R. & H., & Sons, Ld. (Carboy Stand)	40	Putnam Knitting Co. (Turknit Face Cloths)	33	Stubbs, W. B., & Son (Delivery Trucks)	40
LePersonne, L., & Co. (Bottles)	20	Ransom, W., & Son, Ld. (Extracts, Tinctures, &c.)	Cover	Surgical Hosiery Co., Ld.	xvi
Lever Bros., Ld. (Glycerine)	ii	Rendell, W. J. (Quinine Supposi- tories)	xviii	Tatcho-Tone Co.	44
Levermore, A., & Co., Ld. (Precipi- tated Chalk)	44	Reynolds & Branson, Ld.	Leader Page	Taylor, Ernest, Ld. (Boxes)	39
Lewis, H. K., & Co., Ld. (Books)	38	Roberts & Co. (Tonic)	x	Temmler Chemical Works ("Speton") ..	xli
Licenses and General Insurance Co., Ld.	18	Roberts & Newton (Printing)	xxii	Tennants (Lancs.), Ld. (Chemicals) ..	iv
London Rubber Co. (Surgical Rubber Goods)	xvi	Robinson & Sons, Ld. (Boxes)	Leader Page	Thompson, John (Wholesale Druggists 1921), Ld. (Olive Oil)	6
Lorimer-Marshall, Ld. (Health Salts)	21	Rose, J. L., Ld. (Pyrogallie Acid) ..	ix	Thornton & Ross, Ld. (Ammonia) ..	viii
Madden, J. P. (Varicosan Bandage)	xx	Rowland, A., & Sons, Ld. (Macassar Oil)	34	Tilbury, W. R., & Son (Prophylactic Toothbrush)	33
Marie Antoinette Co. (Morgan's Pomade)	33	Royle, J. W., Ld. (Mineral Waters) ..	16	Tipper, B. C., & Son, Ld. (Veterinary) ..	xxii
Maw, S., Son & Sons, Ld.	11	Rudduck & Co. (Shopfittings) Col. Supp.		Tomlinson & Hayward, Ld. (Eureka Weed Killer, &c.)	Leader Page
Mawson, John W., & Co., Ld. (Cap- sules)	viii	Sage, F., & Co., Ld. (Shopfittings) ..	4	Toogood, Wm., Ld. (Hair Preps., &c.)	14
May & Baker, Ld.	Cover	Saint Raphael Cie (Tonic Wine) ..	16	Tyrer, T., & Co., Ld. (Chemicals) ..	iv
Meggeson & Co., Ld. (Effervescent Preps., &c.)	Cover	Scholl Manfg. Co., Ld.	xviii	United Alkali Co., Ld. (Chemicals) ..	ii
Melin, C., & Co. (Flasks)	xx	School of Chiropody	38	United Drug Co., Ld. (Rexall)	3
Methylating Co., Ld. (Methylated Spirit)	41	Scott, A., Ld. (Manicure Sets, &c.) ..	10	Viscose Development Co., Ld. (Bottle Cappings)	37
Millar, A., & Co., Ld. (Orange Wine)	44	Scruton, Oscar & Co. (Nurse Har- vey's Mixture)	16	Wagner, R. V. (Bottle Caps)	20
Munro, M'Laren & Sutherland (Sundries)	xvi	Scurr, C. A. (Optical Tuition)	38	Waide, Thos., & Sons, Ld. (Printers, &c.)	8
Neave's Food, Ld. (Food)	18	Shadeine Co. (Hair Dyes)	44	Wardle Cotton Co., Ld. (Surgical Dressings, &c.)	xvii
Newbery, F., & Sons, Ld. (Cotton Wool)	xx	Shawyer, A. J., & Co. (Developing, &c.)	38	Warrick Bros., Ld. (Chemicals)	48
O'Cedar, Ld. (Polishes, &c.)	40	Sherley, A. F., & Co., Ld. (Dog and Cat Medicines)	xxii	Westminster College of Pharmacy ..	38
Oppenheimer, Son & Co., Ld. (Robo- leine)	2	Slack, A. Bernard	44-Col. Supp.	Wheeler & Huisking, Ld. (American Drugs, &c.)	ix
Orridge & Co. (Valuers, &c.) Col. Supp.		Smith, Martin H., Co. (Ergoapiol) ..	xii	Whiffen & Sons, Ld. (Fine Chemi- cals, &c.)	v
Page, Chas., & Co., Ld. (Chemicals) iil		Smith, T. & H., Ld. (Chemicals)	iv	Whipman, Philip (Chemicals, &c.) ..	vi
Parfums D'Orsay (Toilet Preps.) ..	30	Soc. Voor Chemische Industrie (Theo- bromine, &c.)	ix	White, A., & Sons, Ld. (Chemicals) ..	viii
Parkinson's (Sugar-coated Pills)	viii	Solazzi (Liquorice)	viii	Woolley, Jas. Sons & Co., Ld. (Galenicals, &c.)	13
Penney & Co. (Ace Combs)	35	Solport Bros., Ld. (Washing Gloves, &c.)	34	Wooltons, C. (Developing, &c.)	xxi
Perken, Son & Co., Ld. (Clinical Thermometers)	xix	Sorbo Rubber Sponge Products, Ld. (Rubber Sponges)	32	X.L. Rubber Co.	xvi
Perry's Powders, Ld.	xii	Spatula Publishing Co. (Books)	44	Zeal, G. H., Ld. (Clinical Thermo- meters)	xvi
Phillips, Chas. H., Chemical Co. (Milk of Magnesia, &c.)	Cover	Speedy D. & P. Service	xxi	Zimmermann, C., & Co. (Chem.), Ld. (Dega Chemicals)	vii
		Speer, W. R., & Son (Toothbrushes)	35		
		Spurway et Cie, Ld. (Lavender Bath Salts)	23		

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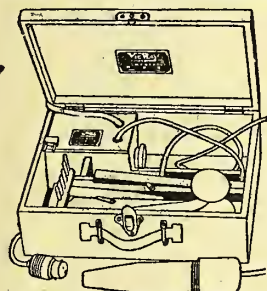
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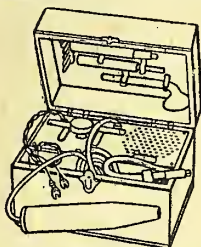
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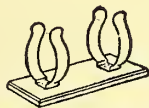
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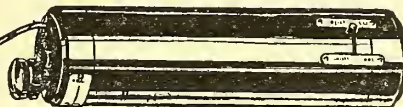
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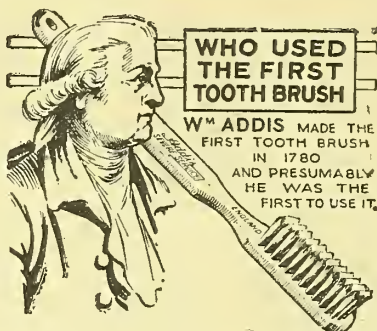
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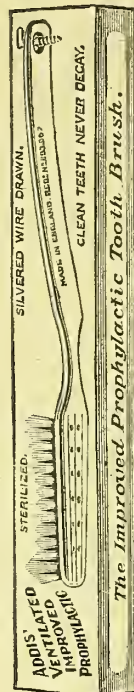


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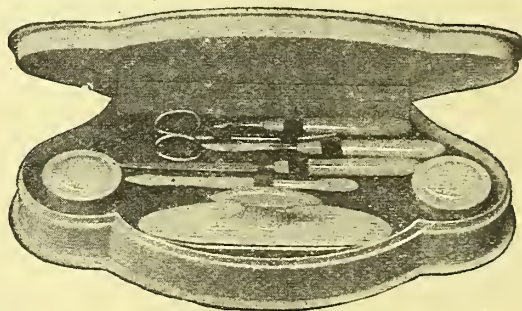
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*"Vanitor" Combs for Bobbed
and Shingled Hair.*



The "Vanitor" series of combs for bobbed and shingled hair has been created to enable the pharmacist to increase his business in toilet combs and to secure him against outside competition. By providing him with a range of excellent patterns, selling at reasonable prices, it places him well ahead of his competitors and assures for him a good percentage of the profits accruing from the sales of combs specially designed for bobbed and shingled hair.

The series comprises seven patterns, varying from the long, straight type, similar to the ordinary dressing comb, to a short, sturdy, handled pattern. Each is made in four materials, black or white non-inflammable, blonde and imitation tortoiseshell. Each comb is packed in an envelope of attractive design which protects the comb and provides the pharmacist with a valuable selling point.

A counter display case and stock box have been specially designed for the series. The display case enables the pharmacist to show the complete series of combs, under glass, on his counter or on the wall. The stock box provides him with the means of storing his combs conveniently and in an orderly manner. Both case and box are supplied free with orders for a representative selection of combs to the wholesale value of £2 10s. 10d.

The "Vanitor" series of combs for bobbed and shingled hair is unique in quality, in variety, in presentation and in facilities for effective display and efficient selling.

S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
and Barnet.



LABORATORY PRODUCTS OF ANIMAL ORIGIN

We specialise in the manufacture of these and can offer :

DIGESTIVE FERMENTS

PEPSIN, 3,000 and 5,000 test, Sol.
LACTATED PEPSIN [& Insol.
PANCREATIN, U.S.P.

DIASTASE
TRYPSIN
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ENDOCRINES in powder, tablet, liquid and capsule form, also hypodermic solutions : *e.g.*

THYROID
PARATHYROID
SUPRARENALS

PITUITARY WHOLE GLAND,
Anterior and Posterior
CORPUS LUTEUM, etc., etc.

PEPTONES

COMMERCIAL, BACTERIOLOGICAL & MEDICINAL (No. 2).

Rennet Powder and Tablets

Glycerin Extract of Red Bone Marrow

Hæmoglobin

Ox Gall

Lecithin

Beef Juice

*Samples & Quotations
for Bulk quantities
on request.*



*Also
Price List of Retail
Package Goods.*

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LIMITED

QUEEN'S HOUSE, KINGSWAY,
LONDON, W.C.2.



The Product you sell makes or mars Goodwill

Goodwill may be said to represent the amount of satisfaction given to a customer.

In a way intangible it is yet a valuable asset and can be made—and more easily marred—by the quality of the goods you sell.

Every sale you make is a critical transaction upon which you are judged—satisfied customers return again.

It behoves you therefore to maintain a reputation for quality—that is how businesses are built up.

There is a comfortable sense of reliability in dealing with the House of Woolley. Whatever your requirements may be—Galenicals, Drugs, Sundries—the thousand and one requirements of present-day pharmacy—you can depend upon that standard of excellence with which their name has always been associated.

Quality and Service essentially occupy first place.

Woolley's are always dependable.

JAMES WOOLLEY SONS & CO. LTD.
VICTORIA BRIDGE, MANCHESTER

These
Preparations
are
labelled
to conform
with the
Labelling
of Poisons
Order
and may
only be
sold by
CHEMISTS

Customer's
Name
free on
3 dozen
of a kind
assorted
sizes

TOOGOOD'S PREPARATIONS FOR THE HAIR

Containing Poisons



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No. 3372

Bay Rum & Cantharides

2½	4	8 oz.
6/6	8/6	13/6 doz.



3374

No. 3374

Bay Rum, Rosemary &
Jaborandi Hair Tonic

2½	4	8 oz.
6/6	8/6	13/6 doz.



3699

No. 3699

Rosemary & Canthari-
dine Hair Wash

2½	4	8 oz.
6/6	8/6	13/6 doz.



3700

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Rosemary, Jaborandi &
Quinine Hair Wash

2½	4	8 oz.
7/6	10/6	17/- doz.

MANUFACTURED BY

WILLIAM TOOGOOD LTD
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"DELVOIX" Crème de Beauté

This new presentation of our already popular "Delvoix" Crème de Beauté was only available to our representatives seven days ago.

WE ARE INUNDATED WITH ORDERS AS A RESULT and reports read "sold at sight." Our thirty representatives cover a deal of ground in a short time, but we feel that you should not wait until "journey" to get the advantage of this introduction.

Dressing Table Packing—2½ oz. screw-capped opal pots, per doz. 10/-

Bag or Sample size—Large capacity, domed-lid, frosted aluminium boxes, printed in colours. Three dozen in remarkably beautiful period display outer per doz. 2/- per gross 22/6

Companion "period" showcards with all orders.

Special packings for Export. Prices on application.

AYRTON, SAUNDERS & CO., LTD.
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**Tonic, Restorative,
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Known throughout the World,
and prescribed in all cases of
**ANÆMIA, DEBILITY, and CON-
VALESCENCE, to Young Women,
Children and the Aged.**

DOSE : One wine-glass after the
two principal meals.

Recommended by—
PROF. BOUCHARDAT, Professor of
Hygiene, Paris Faculty of Medicine.
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"For more than thirty years St. Raphaël Wine has been
exclusively prescribed, with success, in the Paris hospitals
as a pure tonic, by eminent physicians, such as Magendie,
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nursing their own children; it is preferable to stout, which
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"St. Raphaël Wine is most precious in all cases where
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or shock."—DR. C. DES BARRES.

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**To be obtained from all
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We have a special Drug Department and
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Indents promptly and carefully executed
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A safe, simple and reliable remedy for Children's
Ailments is advertised so extensively in the daily
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retailer without effort on his part.

The selling has been done before the mother
reaches the chemist, and, having supplied her, it
is only common sense to claim she will buy other
family necessaries from him. Moreover, the con-
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IN style and treatment, the 1926 Showstand for “Mineral Spring” is distinctly unusual and will certainly attract those passing your window. Measuring $22\frac{1}{2} \times 33$ ” when in position, it is carried out in white and gold on black, with central figures recessed and artistically coloured. Illustration in actual colours post free on request.

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The stand can be set up in a few minutes, and the whole display, using cartons, outers and auxiliary cards, calls for the minimum of time and trouble.

Please apply early, as the supply is limited. The display is free with orders for 4 dozen and upwards.

The Chemists' Own Effervescent



THOMAS KERFOOT & CO. LTD.
BARDSLEY VALE, LANCASHIRE,
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ESTABLISHED 1797.

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Season—1926



COD LIVER OIL

GUARANTEED GENUINE. — FINEST PURE LOFOTEN.

Manufacturers :

BRØDR. AARSÆTHER A/S, Aalesund, Norway.

LARGEST MANUFACTURERS OF COD LIVER OIL IN NORWAY.

Stocks always held in London.

In 25-gallon tin-lined barrels.

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"The Malt that cannot crystallize."

We are in a specially favourable position to supply these commodities in **Bulk**. You cannot buy better.

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JEFFREYS, MILLER & CO., LTD.

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'Phone : 377 Wigan.

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100 YEARS' SUCCESSFUL TRADING

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**FIXED PRICES
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Extensively advertised on
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Showcards and advertising
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**NEAVE'S FOOD LTD.
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HOW would your business fare in the event of Accident or Sickness causing you to be temporarily disabled, and consequently leaving it devoid of your supervision ?

A PERSONAL ACCIDENT AND SICKNESS POLICY

is the only safeguard against financial loss in such circumstances. Therefore, write to-day for particulars to

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Established 1890.

RATES FROM £1 UPWARDS.

Funds exceed £650,000.





You may with confidence recommend



as the Ideal Food-Drink for all ages.

It is price-protected, and the sales are directed through Chemists.

HORLICK'S MALTED MILK CO., LTD.,
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BOTTLES & GLASSWARE

OF EVERY DESCRIPTION
FOR THE TRADE
WHOLESALE ONLY

In all Colours

We make good

BOTTLES

—hand or machine made.

Large and well-organised
works enable us to meet your
immediate requirements for

DISPENSING, EMULSION,
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SAUCE, EMBROCATION,
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*Our prices are right
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Make us your standard Bottle suppliers
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Cellophane can be had in sheets, all sizes and colours; also in the shape of Bags, Discs, Envelopes, printed or not, allowing the contents to be seen by transparency.

Cellophane wrapped goods look better—keep better—sell better.

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BOTTLES and JARS

of every description.

Send your enquiries now for
OLIVE OIL BOTTLES.
Provence and Pedestal shape.

All usual qualities supplied.

Write or 'phone (Central 2430, 5 lines, and 2 private lines)
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99 CANNON STREET - - LONDON, E.C.4
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BEST IN QUALITY & APPEARANCE



Self-Fixing

R.V. WAGNER

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Healthy Salts

IN DECORATED
TINS
4/3 doz. 45/- gross

SALINES, LEMONADE CRYSTALS,
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Packed Goods

FOR "OWN NAME" TRADE.
FOOT POWDERS, VIOLET POWDERS, EMBROCATIONS, BATH SALTS.

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CASEIN

1. White Soluble Flocculent "CASUMEN" containing nearly 90% pure proteid. In bulk or ½-lb. or ¼-lb. packets or tins.
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MODIFIED
DRIED FULL CREAM MILK
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Supplied in bulk. In 1-lb. packets. Or in decorated tins containing 5, 10 and 16 oz. with literature.

(This is the finest form of milk food for infants and invalids and can be used for babies who cannot be breast fed from birth. Composition and bacteriological purity approved by doctors and nurses. 1-lb. airtight tins can be supplied to retail at 2/6.)

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ESTD. 1879.

Eight factories in Dorset, Somerset and Wilts.



BRAND'S ESSENCE

of Beef, Mutton or Chicken
consists solely of the juice of
the finest meats, prepared
with the greatest care under
the most hygienic conditions.

Essential in the Sick Room.

Sold by all Chemists and Stores.

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is your guarantee that
the Oil is the finest in
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Stocks in London. **PEACH
APRICOT
HONEY
MAPLE** &c. *Ask for
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Works : GRASSE (France) & BEYRUT (Syria).

Essential Oils—Synthetics.
All Raw Materials for Perfumery.

Absinth	Laurel
Almond, bitter,	Lavender
Angelica [S.A.P.]	Lemon
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Cloves	Rosemary
Copalba	Rue
Costus	Sandalwood
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Fennel	Tansy
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**Olive, Peach Kernel, Sweet Almond Oils
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AMERICAN ESSENTIAL OILS

GENUINE AMERICAN PEPPERMINT OIL

*Natural : finest single distilled. Prismentha : re-distilled.
Supermentha : rectified.*

OILS OF NUTMEG, COPAIBA, SASSAFRAS,
CEDARWOOD, SPEARMINT, WORMSEED.
BALAMS: PERU, COPAIBA, TOLU.

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CHEMICAL WORKS "FLORA"

DUBENDORF, ZURICH - SWITZERLAND.

Manufacturers of

ARTIFICIAL MUSKS

100%

AMBRETTE KETONE XYLOL

The "Flora" Musks are the essence of perfection, and striking examples of a factory with a large reputation for quality.

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Samples and Prices from—

CHAS. ZIMMERMANN & CO. (Chemicals), LTD.
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TRADE



MARK

SPURWAY'S LAVENDER BATH SALTS

At the request of a large number of our customers we are now introducing a

sample **7 $\frac{1}{2}$** D. size

(fully sufficient for three baths).

**THIS SIZE IS NOW SELLING
FREELY AND IS BRINGING REPEAT
ORDERS FOR THE LARGER SIZES.**

The Salts are of exquisite and clinging fragrance and are looked upon by discriminating buyers as the finest and best value on the market.

Handsome show-boxes containing four jars, sent with each order for one dozen.

PRICE 5/- per doz.

Also two larger sizes:—

12 oz. - 17/6 per doz.

32 oz. - 36/- „

Highly artistic show-cards sent with each consignment.

SPURWAY ET CIE, LTD.

**89 Great Eastern Street,
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**CANNES-GRASSE, RIVIERA,
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KINGSTON (ONTARIO)**

Telegrams : "NEROLI, LONDON."
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POTTER & MOORE'S 1749 MITCHAM LAVENDER WATER

A perfume of distinction which has stood the test of time!



Potter and Moore's
Mitcham Lavender
Water and Toilet Re-
quisites are prepared
with meticulous care as
aids to perfect beauty.

TOILET SOAP

BATH SALTS

COMPRESSED

BATH TABLETS

COMBINATION BOXES OF SOAP AND PERFUMERY

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SMELLING SALTS

FROZEN LAVENDER WATER

FROZEN BRILLANTINE



PRICES ON APPLICATION.

POTTER & MOORE, The Lavender Distillery, MITCHAM, SURREY.

SOLE PROPRIETORS—

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Sole Wholesale Scottish Agents for Articles of Perfumery—

MUNRO, McLAREN & SUTHERLAND, GLASGOW, SCOTLAND



Wearing away the Stone

Just as constant drips of water wear away the strongest stone, so Forhan's For the Gums consistent advertising is steadily breaking down the public ignorance of Pyorrhoea.

Every man and woman awakened to the danger of Pyorrhoea by these advertisements is made equally aware that Forhan's For the Gums stands as safeguard.

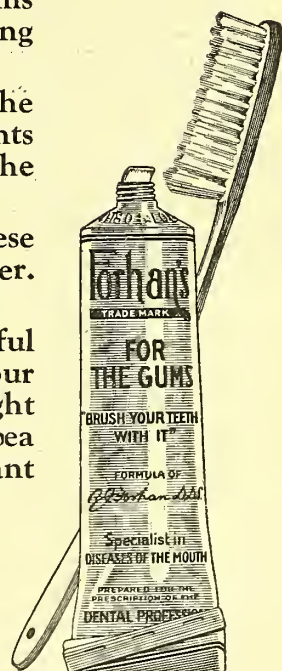
At this moment there are 4 out of 5 of these people over forty, and thousands younger. All customers for the pharmacist!

Has your pharmacy its quota? A beautiful Forhan's For the Gums showcard in your window links you definitely with the fight against this dread disease; leads Pyorrhoea victims to your counter for this pleasant tasting dentifrice.

The showcards are free on request.

Forhan's

FOR THE GUMS



THOS. CHRISTY & CO.,
4-12, Old Swan Lane,
London, E.C. 4

DEARBORN (1923) LTD.

37 Gray's Inn Road, London, W.C.1

Toilet Specialties.

	Price per doz. to Retailer	Selling Price P.A.T.A.
PILENTA SOAP ..	10/-	1/-
A complexion soap.		
PROLACTUM ..	10/-	1/-
For the lips.		
PARSIDIUM JELLY ..	10/-	1/-
For wrinkles.		
ALLACITE OF ORANGE		
BLOSSOM ..	22/6	2/6
A dressing cream.		
BORANIUM ..	22/6	2/6
A hair tonic.		
CLEMINITE ..	22/6	2/6
For a face lotion.		
COLLIANDUM ..	22/6	2/6
For a face tint.		
PERGOL ..	22/6	2/6
A deodorant.		
TEKKO PASTE ..	22/6	2/6
Camphor cream.		
STALLAX ..	13/6	1/6
For a shampoo.		
JETTALINE ..	31/6	3/6
For clearing the skin.		
PHEMINOL ..	36/-	4/-
A depilatory.		
MENNALINE ..	36/-	4/-
For the eyelashes.		
MERCOLIZED WAX ..	18/-	2/-
A face cream.		
STYMOL ..	31/6	3/6
For oily complexion and blackheads.		
SILMERINE ..	36/-	4/-
Hair-curling fluid.		
BARSYDE ..	22/6	2/6
Dandruff eradicator.		
TAMMALITE ..	22/6	2/6
For grey and faded hair.		
LIQUID PERGOL ..	31/6	3/6
To check excessive perspiration locally.		
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For whitening the hands.		
COCONOIDS ..	31/6	3/6
For figure development.		

The Products of

Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES ..	36/-	4/-
For obesity.		
SOFT PALERIUM ..	58/6	6/6
For wrinkles.		
LIQUID NAIL POLISH ..	45/-	5/-
Brilliant and lasting.		

Stocked by ALL Wholesale Houses.

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Australia: ALL WHOLESALE, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.
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 SIVE BROS. & KARNOVSKY, Johannesburg.
India: FRAMJEE & SON, Bombay.
 A. L. CHOUDRY, Calcutta.
New Zealand: SHARLAND & CO., Auckland and Wellington.
South America: DEARBORN (South America) Ltd., Calle Pavon 2100, Buenos Aires.
Straits Settlements & Federated Malay States: MEDICAL HALL, Ltd., Singapore.



Use this New Showstand

It has already proved itself a good salesman of NUCTONE in many parts of the country. From a decorative point of view it would be hard to beat, and it forms a splendid link between our advertising and your cash-till. Ask for it when you next order NUCTONE.

You sell NUCTONE under a definite guarantee of safety backed by the manufacturers. When asked for a colour restorative for Grey Hair you can recommend it with confidence every time.

Nuctone for GREY HAIR

In

Four

Grades

NUCTONE for dark and medium hair.
3/9 size 32/- doz., 6/6 size 52/- doz.

NUCTONE ECLAIRE for fair & auburn hair. 3/9 size 32/- doz., 6/6 size 52/- doz.

NUCTONE CONCENTRE for Gentlemen's hair, 6/6 size 52/- doz., 12/6 size 84/- doz.

NUCTONE ECLAIRE CONCENTRE for Ladies and Gentlemen with fair hair who want a quicker result.

6/6 size 52/- doz., 12/6 size 84/- per doz.

Obtainable from your usual wholesalers or direct from—

J. C. GAMBLES & CO., LTD.

211/215 Blackfriars Road, London, S.E.1

Manufactured by

STEWART, GOODALL & DUNLOP, LTD., 4 Dering St., London, W.1

Gladys Cooper's New Popular Packs

THAT the success of these new packs is assured has been proved by the enthusiastic opinions we have received from pharmacists everywhere. Artistically produced at popular prices; the possibilities for you are enormous.

A large advertising campaign, with whole pages, starts in a week's time, so make sure that you have at least small stocks of the following packs, and link up by displays on your counters and in your window.

Powders and creams exactly the same as used by Miss Cooper herself—at prices within the reach of all—well advertised, and showing a really good profit. Can you doubt that their success will be immediate and lasting?

Millions of potential customers will read the weekly series of articles that Miss Gladys Cooper is contributing to the *Daily Mirror* on Beauty, and a display to link up with this enormous publicity is bound to bring you your share of the business.

TRADE DISCOUNT

33 1/3%

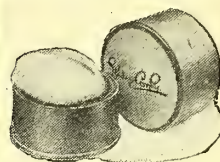
Write for complete Price List and details of bonus offers available.

Gladys Cooper's Beauty Preparations Ltd.
550 Oxford Street, London, W.1



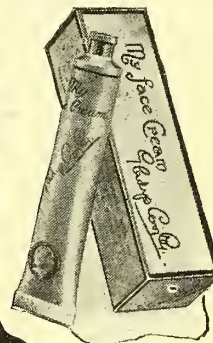
The New 2/6 Box.

The Gladys Cooper Powder, justly famous for fineness and delicacy of tint, is now issued in a vastly improved box, containing twice as much powder as the old size.



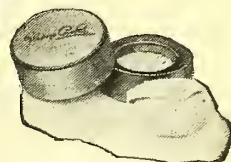
The New 1/6 Sifter Box.

Each box complete with lamb-wool puff. In Pale Rachel, Medium Rachel and Incarnal shades. Packed in display boxes of one dozen of each tint and assorted.



The New 1/- Tube.

Contains exactly the same cream as the 2s/- pots. Attractively packed in display boxes of 12 cartons.



The New 1/6 Blush Rouge.

The rouge that has taken Miss Cooper 12 months to perfect. Quite "undetectable," it gives a delicate bloom to all complexions.

Peldo
(Patent applied for)

**THE
INVISIBLE
GLOVE**

IF YOU SHOW 'PELDO' YOU WILL SELL IT!

'PELDO' IS ORIGINAL.

It is not a Substitution for Anything.

Obtainable from all the Patent Houses @ **13/6** per dozen.

WINDOW DISPLAY MATERIAL FREE ON APPLICATION.

SOLE PROPRIETORS AND MANUFACTURERS:

C. R. HARKER, STAGG & MORGAN, LTD.

Devon Wharf and Bell Wharf,

EMMOTT STREET, MILE END, LONDON, E.1.

A wonderful new hair-waving invention

The instantaneous success of the new Kirby Water Waver is easily explained. It solves at last the problem of satisfactory home-waving, and by performing all that is claimed it fills a real want.

All you do is to fill the container with boiling water. This heats the tongs and keeps them at the ideal waving temperature for fully 10 minutes.

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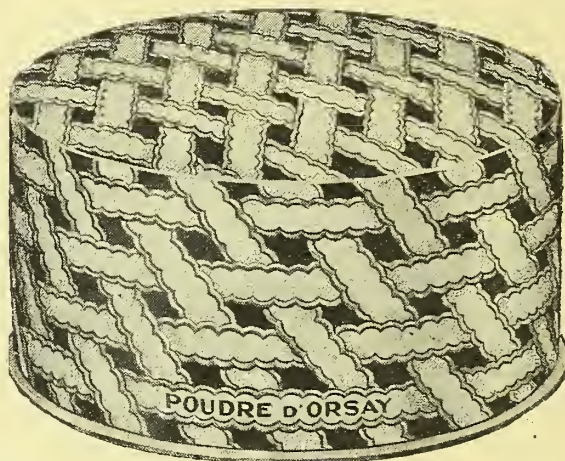
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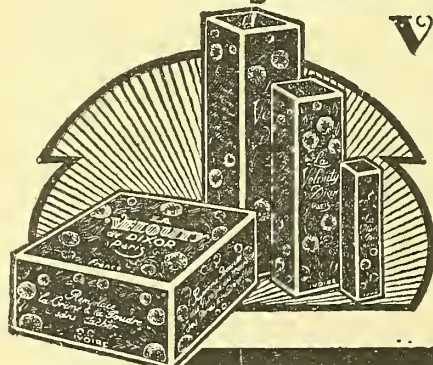


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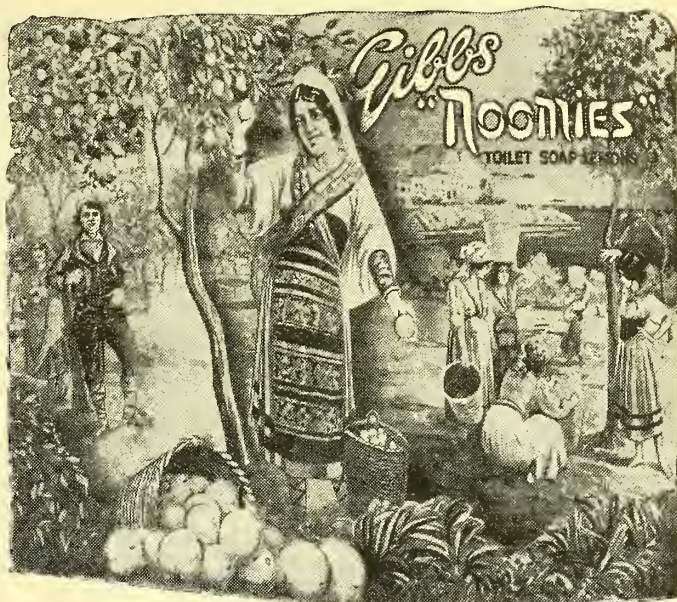
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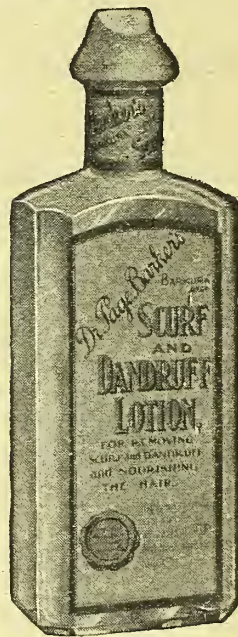
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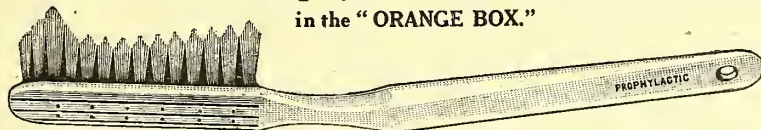
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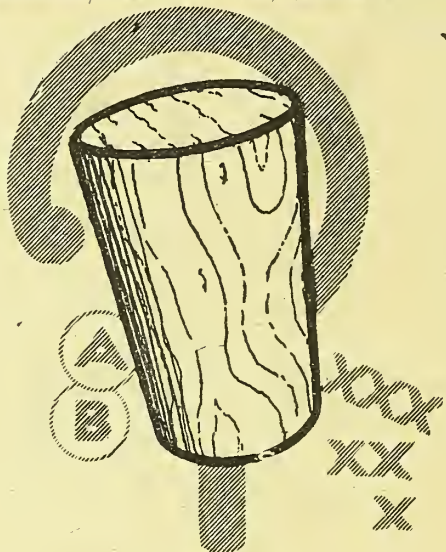
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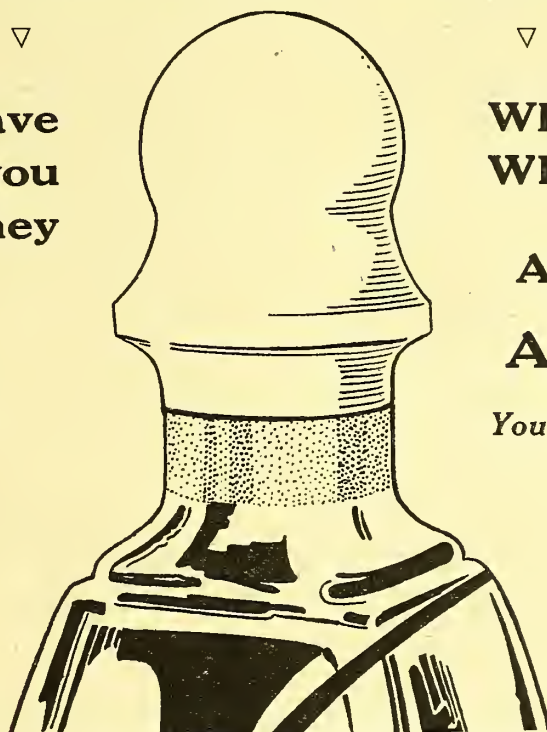
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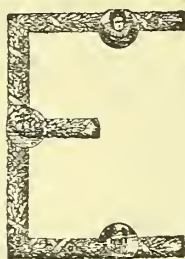


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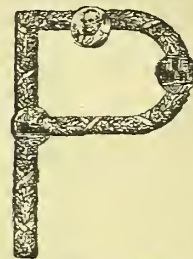
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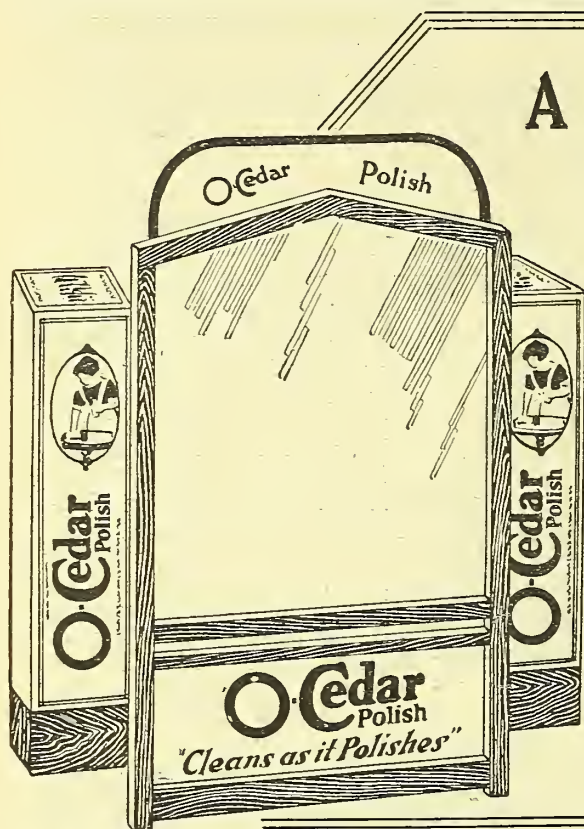
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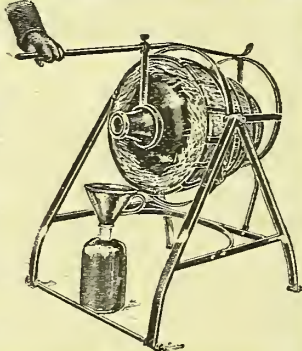


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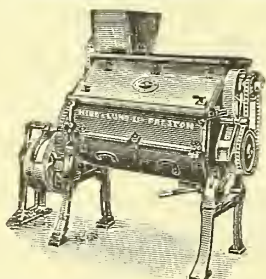
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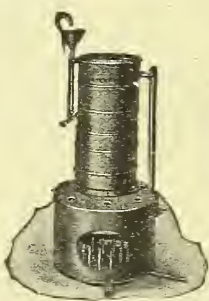


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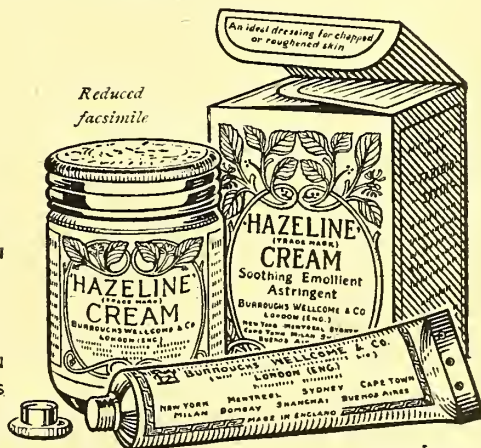
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Contents	
No. 16	Series 2412
Vol. 104	
	PAGE
American Notes	552
Births	563
British Pharmaceutical Conference	560
Business Changes ..	553
C. & D. Commercial Compendium	583
Chemists' Windows ..	557
Colonial and Foreign News	553
Coming Events	553
Company News	554
Correspondence —	
Letters	580
Subscribers' Symposium	581
Legal Queries	581
Miscellaneous Inquiries	582
Czecho-Slovak Specialities Order	556
Deaths	563
Deed of Arrangement ..	551
Editorial Articles:—	
Complaints against Chemists	566
Position of Sulphur	567
Quinine Manufacture in India ..	568
English News	549
French News	552
Gazette	551
Information Department	564
Insurance Act Dispensing	573
Irish Druggists' Meeting	558
Irish News	551
Marriages	563
North London Dinner	560
Observations and Reflections	565
Optical Convention ..	569
Origin of a Soap ..	564
Personalities	562
Pharmaceutical Society of Great Britain	555
Physico-Chemistry ..	561
Poison Problems	557
Poisonings	549
Recent Patents	562
Retrospect	582
Scottish News	551
Trade-marks	559
Trade Notes	564
Trade Report	575
U.S. Foreign Trade ..	571
Westminster Wisdom ..	555
Wills	562
Winter Session	572

"The Art of Dispensing"

TENTH EDITION IN PREPARATION

THE new edition (the tenth) of "The Art of Dispensing," which has been in preparation for some months, is expected to be on sale in a few weeks. The ninth edition was issued in July 1912, and has been reprinted with emendations several times since then. The new work has been subjected to a thorough revision, and several suggestions have been adopted for improving its usefulness as a text-book for students and reference book for chemists and druggists. In spite of the expense involved in producing the work, it has been found possible to retain the old selling price of 8s., by post 8s. 6d. "The Art of Dispensing" will be obtainable through most wholesale houses. Orders are being booked for the new edition, to be dispatched so soon as copies are received from the binders.

English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Fairchild Scholarship and Prizes

The new syllabus for 1926 of the Fairchild Scholarship and Prizes is now available to students of pharmacy in Great Britain and Ireland. Copies are being sent to all secretaries of the Pharmaceutical Society's branches, and any chemist who has an apprentice or assistant who is eligible for the competition should apply for a copy to Mr. Herbert Skinner, Ph.C., secretary to the Committee of Trustees, Fairchild Brothers & Foster, 65 Holborn Viaduct, London, E.C.

Staff Festivities

A large number of the members of the head office staff of Burroughs Wellcome & Co. and their friends held a very enjoyable dance at Stationers' Hall, Ludgate Hill, London, E.C., on April 10. This was the concluding item of the winter programme.

Over 400 guests attended a dance held at Merthyr Tydfil on April 8, organised by the local staff of Boots, Ltd. The proceeds are to provide headphones for the wireless receiving apparatus recently presented to the Merthyr General Hospital. The M.C.'s were Dr. W. Ll. Jones, Dr. V. Webster, Dr. Anderson, Dr. M. Dittlesohn, and Mr. E. Davies. Mr. E. Edwards acted as organiser, with Mr. J. B. Thomas as secretary.

Contracts

The following tenders have been accepted by the bodies named:—

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Hawarden Guardians.—Mr. H. L. Gerry, chemist and druggist, Chester, drugs, etc.

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Tenby Corporation.—Mr. J. B. Francis, chemist and druggist, disinfectants.

Whitby Guardians.—Mr. W. Ruff, chemist and druggist, drugs.

Whitby Urban Council.—Mr. C. Tindale, chemist and druggist, drugs.

Winchester Guardians.—Boots, Ltd., druggists' sundries

Poisonings

The following cases of fatal poisoning, among others, have been recorded since our last report:—

The Camberwell (London) coroner concluded, on April 12, an inquiry concerning the death of Mr. Edgar A. Preston, a journalist, lately residing at Herne Hill, who was found lying in West Norwood Cemetery in an unconscious state on April 1 and died at King's College Hospital later in the day from lysol poisoning. A bottle which had contained lysol was picked up. Evidence showed that Mr. Preston, who was sixty-four years of age, had been in financial difficulties. The coroner recorded a verdict of "Suicide while of unsound mind."

An inquest was held at Blackburn, on April 9, on the body of Sarah Smithies, Billington, aged three. It was stated that the child was an out-patient at Blackburn Royal Infirmary, and the mother was given a bottle of medicine and also some poisonous lotion in a blue bottle. Before taking the child to the infirmary, the mother gave her a dose out of the medicine bottle. Her son, aged thirteen, then said he had poured the lotion into a medicine bottle. He had been in the habit of washing out bottles, and on this occasion, seeing there was only a little lotion left, he had found a spare medicine bottle and poured the lotion into it. The girl

died the same night. The coroner remarked that it was no use keeping lotion in special bottles if these bottles were ignored. A "Misadventure" verdict was returned.

An inquest was held recently at Cockermouth on the body of Mr. George Wotherspoon, aged fifty-three, who was staying in apartments in the town at the time of his death. Medical evidence showed that $\frac{3}{4}$ gr. of strychnine was found in the organs of the deceased. The widow stated that she did not know whether her husband was in the habit of taking strychnine: he often doctored himself. The Coroner: Were the medicine bottles, and things bought from the chemist, in those two rooms?—To the best of my knowledge. Was there any preparation which contained strychnine?—Part of the aloin contains a small portion of strychnine. Apart from that I do not know. Was the aloin compound in the form of pills?—Yes. The last thing he did was to hand me my pill. Where was the aloin compound bought?—I am afraid I can't tell you. Is it a compound you have to sign for as a poison?—I believe so. Do you know when you bought it?—No, I can't answer that with any accuracy. I rather think my husband bought it. How many of these tablets were in when the bottle was full?—I think a hundred. Was it full?—Nearer full than not full. I have not had it for a very long time, and I took only one each evening. Had your husband been in countries where this nux vomica was grown?—What is nux vomica? The Coroner: It is a seed containing strychnine. Mrs. Wotherspoon: He was in East Rhodesia in 1917, but we did not return. Can you throw no light on how he obtained access to the strychnine?—None at all. The jury returned an open verdict.

Liverpool

Two more chemists' shops are to be opened in Allerton Road.

Liverpool is suffering less than many towns in the country from the influenza epidemic, and the symptoms of the type of influenza now prevalent, according to an official of the Health Department, are severe headache, feverishness, general pains, and a cough.

Mr. R. L. Holt, presiding at the annual meeting of the West African Trade Section of the Liverpool Chamber of Commerce, referred to the improvement of the palm-oil industry. He thought that the African should be educated as to how to grow his palms to give the maximum result in fruit, and to employ a better method in extracting the oil.

Snia Viscosa, the famous Italian firm of artificial wool manufacturers, is looking for a site for a factory covering thirty-five to forty acres in England, and efforts are being made to get the firm to secure one on the Cheshire side of the Mersey. To produce 110,000 lb. of artificial wool per day, approximately 500 to 600 tons of chemicals and coal would be required.

On April 12 Mr. J. R. Charlton (representative of Evans Sons Lesclier & Webb, Ltd.) lectured in the Earlston Library, Wallasey, on "Pictorial Composition," illustrating his remarks by 125 lantern slides. Many of these were copies of notable paintings, together with a selection of his own work and special diagrams. Several local pharmacists were in the gathering.

A correspondent has written to an evening paper protesting against what he describes as "the absolutely inadequate conditions in Wallasey regarding the dispensing of medicines after 8 p.m.—indeed, it is really 7 p.m., as most chemists close at that hour." For three hours, he says, he tramped Wallasey in an effort to get a prescription made up, and finally succeeded only by the extreme kindness of a chemist.

An illustration of what Liverpool can do happened recently. A pharmaceutical preparation was urgently required by a factory many miles away, but the steamer it was in was overdue, and to make matters worse was delayed in docking. One of the principals of the firm, who had the order in hand, went to the docks with a motor-lorry, and by dint of hard work, and some good luck, the case was placed on the lorry between 5 and 6 p.m. To ensure prompt delivery, they travelled all night, reaching their destination at 7.30 next morning, and so saved the situation.

Manchester

The first meeting of the season of the Manchester and District Pharmacists' Golfing Society is on April 21, at Chorlton Golf Club links.

It is reported that Woolworth & Co. have acquired the important block of premises at the corner of Deansgate and St. Mary's Gate. Two shops have already been vacated.

Sheffield

The proposal to hold a shopping week in Sheffield is likely to be abandoned.

Chemists are somewhat concerned regarding the statement of the chairman of the licensing justices (*C. & D.*, April 10, p. 514). The police are now making inquiries as to what classes of wine are being retailed, and in what quantities.

In connection with the football match between Halifax and Sheffield chemists, to be played on Halifax Town Football Club's ground on April 22, an opportunity is offered to meet the home team's supporters. A train leaves Sheffield (Victoria) at 1.37 p.m.

Miscellaneous

POISON LICENCE APPLICATION.—Folkestone Town Council has granted a licence for the sale of agricultural and horticultural poisons to Mr. G. Neale, Dover Road.

ALIENS RESTRICTION (AMENDMENT) ACT.—Permission has been granted to Mozes Hamburger, chemical and produce merchant, Dunster House, Mincing Lane, London, E.C., to use the name J. & W. Wegman.

FOOTBALL.—The annual football match between the Eno Recreation Club and Thornlaw Sports Club, in aid of St. Dunstan's, was played on April 10 at Catford. A good game resulted in a win for Thornlaw Sports Club by six goals to two.

LEAGUE OF NATIONS.—At its last meeting, the Council of the League of Nations appointed Mr. Arthur Woods, lately police commissioner of New York City, to the Advisory Committee on Traffic in Opium and other Dangerous Drugs as an assessor having knowledge of the police side of the administration of laws dealing with these drugs.

WINE LICENCE CONFIRMATION.—At the adjourned Bournemouth Licensing Sessions, on April 8, when Mr. H. H. Greenfield, chemist and druggist, applied for confirmation of his wine off-licence, the chairman pointed out that the condition had been made that no medicated wines could be sold unless a medical certificate was produced. The Bench decided that a further condition, that a time limit of three months should be placed on each certificate, must be imposed.

SHOPS BROKEN INTO.—The premises of Mr. E. A. Geddes, chemist and druggist, Lee High Road, London, S.E., were broken into recently, and a number of cameras stolen.—Three youths, named Hyams, Casey and Chapman, were bound over at Lambeth Police Court recently on a charge of breaking into shops in Rye Lane, S.E., including a branch of Boots, Ltd.—At Preston Quarter Sessions, on April 7, Frederick W. A. Reeve (26) pleaded "Guilty" to breaking into the Fleetwood shop of Boots, Ltd., and stealing articles valued at £6 11s. 2d. On promising to give up drink, he was discharged.

FIRES.—The following outbreaks of fire have been recorded since our last report:—An outbreak, attributed to goods coming in contact with a naked light, occurred at the premises of Mr. H. A. Nicholson, chemist and druggist, Parson's Green, London, S.W., on April 7. The damage to the shop and its contents was not extensive.—Children playing with fire caused damage to the premises of May, Roberts & Co., Ltd., druggists' sundriesmen, Clerkenwell Road, London, E.C., on April 10. Some stock and packing cases on the ground floor were damaged, but the outbreak was quickly extinguished.

IN THE COURTS.—At Tower Bridge Police Court, London, on April 8, James E. Wallden, proprietor of an employment agency, 112 St. George's Road, S.E., was fined 20s. for accepting more than a registration fee

of 2s. 6d. from Miss Coote, Foyle Road, Blackheath, described as a lady dispenser. It was stated for the prosecution that the sum of 30s. was charged in this instance by the defendant, whereas the balance (27s. 6d.) should not have been paid until a position was found.—In Bloomsbury County Court, London, recently, B. Barnato, dentist, 3 Soho Street, W., was fined £5 for the unlawful use of the title "chemists."

SPORTS CLUB FORMED.—The South-West London Chemists' Association has inaugurated a tennis and sports club, and has acquired the use of the ground and two tennis courts of Van den Berghs, Ltd., Mount Road, Wimbledon Park. Play commences on April 17. There are a few vacancies, and intending members should notify the secretary (Mr. W. K. Fitch, 28 Gauden Road, Clapham, S.W.4) without delay. Subscription 21s.—The Association's team scored 589 in the second round of the shoot for the Maw's challenge shield, the individual scores being as follows: G. F. Barratt (skipper) 98, G. B. Brook 97, W. K. Fitch 99, A. M. Garden 99, J. F. Monaghan 98, and F. G. Wells 98.

Scottish News

Brevities

* A runaway horse caused considerable damage at the premises of Mr. D. McNay, chemist and druggist, Kilmarnock, recently.

At a recent meeting of the Continuation Classes Subcommittee of the Forfarshire Education Authority, with the Advisory Council for the Arbroath area, it was proposed to institute evening classes in salesmanship and window dressing.

At Stirling Sheriff Court, on April 13, Mr. J. Walker, chemist and druggist, was fined £10 under the Dangerous Drugs Act for failing to enter into a special register either on the day he received certain drugs or the following day a note of the quantity received, and also having failed to enter some drugs supplied on prescription.

The marriage took place at Burntack, Dinphail, on April 8, of Mr. G. Mackintosh, to Miss M. Begg. Mr. Mackintosh served his apprenticeship to Mr. A. Joiner, chemist and druggist, Nairn, but preferred a shepherd's life to that of a chemist. He aroused considerable interest in London last year when he had charge in Hyde Park of about a thousand sheep.

Edinburgh

Edinburgh Spring Holiday is on Monday, April 19.

Photographic business has been very promising since Easter.

The Governors of George Heriot's Trust approved, on April 12, a recommendation of the College Committee that application should be made to the Scottish Education Department for their permission to retain the services of Principal Laurie beyond the retiring age until the end of the session 1926-27.

Glasgow

In the Outer House of the Court of Session, Edinburgh, on April 7, Lord Fleming approved of an issue for the trial by jury of an action at the instance of Patrick Fitzpatrick, tramcar driver, Riverford Road, Pollokshaws, against George Melville, Viking Thread Mills, Pollokshaws, for payment of £500 as damages for the death of his son Anthony, aged six years, who died in consequence of eating some sodium nitrate to which he had helped himself at the defender's mills. His lordship was of opinion that on the pursuer's averments a jury would be entitled to regard the presence of the sodium nitrate as being of the nature of a trap for young children. He thought that there were relevant averments that there was a breach of a duty which the defenders owed to the pursuer's son, and that the "effective" cause of the accident was the negligence of the defenders.

Irish News

Pharmaceutical Society of Ireland

The following are the results of the Preliminary examination recently held:—Passed with honours—Thomas Francis Redmond. Passed—Mary C. Keating, Eileen G. McClement, Hanora Lombard, Rose Anne Carolan, Richard S. Kilgariff, John Rogers, Cornelius E. Collier, Patrick Gorry, Abraham Smullen, Samuel H. S. Brennan, William C. G. Rush, Richard B. O'Sullivan, Mary S. McAuley, William J. Crawford, Robert Lemon, Matilda H. McLeese, Helen V. McGeady, Thomas Quigley, Sarah M. Smyth, Patrick J. Hession, Jerome Fogarty, David Baxter, Winifred Glenn, Margaret McF. Hunter, Maureen S. Fitzpatrick, Robert L. Hanna, Thos. B. Carey, John J. Huey, John C. Watt, Patrick F. O'Gorman, Immaculita G. C. Breen, John J. Hare, Helen Hurrell, Mary K. Varden, Johanna Power, John C. Kehoe, Eileen F. Finigan, Michael Walshe, Violet V. Hamilton, and Kathleen O'Shea. Twenty-one candidates were rejected.

Brevities

Mr. R. F. McCartney, J.P., Ph.C., has been appointed member of the Select Vestry of St. Patrick's Parish, Coleraine, and Mr. I. Davison, R.D., High Street, Portadown, member of the Select Vestry of the Parish of St. Mark's, Portadown. Mr. J. Trevor Nicholl, Ph.C., High Street, and Mr. W. E. Wilson, chemist and druggist, North Street, Belfast, have been elected sidesmen of the Cathedral of Belfast.

The amount of compensation awarded pharmaceutical chemists and registered druggists in Northern Ireland for deprivation of profits through the abolition of their wine licences under the Intoxicating Liquors (Northern Ireland) Act, 1923, up to date amounts to £23,539 10s., representing 110 claims. Over 90 per cent. of the claims have now been heard, but as there are still a few outstanding, the Minister of Finance has decided that the claims tribunal shall continue in existence for a further period of three months up till June 30. The Licensing Committee of the Ulster Retail Drug Trade Association, pending the completion of the claims, has deferred its final report on the matter.

Dublin

Sir Thomas Robinson is the chairman of a newly formed association for the improvement of Grafton Street, Dublin, and Mr. T. W. Farrin is one of the directors.

Three men were remanded in Dublin on April 9 charged with the armed robbery of $\frac{1}{2}$ lb. of chlorate of potash from the Kimmage Pharmacy, on November 28, giving a receipt signed "O/C 'C' Co., 3rd Battalion I.R.A." They were also charged with the illegal possession of firearms with intent to endanger life, with having assaulted Mrs. Thom, the proprietress, by presenting revolvers at her, and with having the explosive substance mentioned in their possession.

Gazette

Partnership Dissolved

MANSON, S. J. D., and RIDER, E. A., 18 Great George's Road, and 127A St. John's Road, Waterloo [Liverpool], Lancaster, chemists and pharmacists, under the style of Manson & Rider.

Deed of Arrangement

Donegan, Edwin, and Donegan, Michael J. (trading as Brennan & Beckett), 17 Fleet Street, Dublin, wholesale druggists. Petition dated April 7; filed April 9. Liabilities, secured or partly secured, £2,900; unsecured, £1,600; estimated net assets, £312.

A TEXAS DRUGGIST has attached a private zoo to his store, with the idea of attracting animal lovers, children, and curiosity seekers, and is doing a thriving business in monkeys, parrots, apes, etc.

French News

From the "C. & D." Paris Correspondent

THE PERIODICAL ATTACK ON SOOTHERS was again made in the Chamber of Deputies by M. Guérin, the pharmacist who sits as deputy for the Manche department. His Bill for making their sale illegal was supported by Professor Pinard, an eminent authority on such matters, and by the Government, and finally, by 370 votes to 153, the Chamber decided that their manufacture should cease within three months. The Bill has, however, still to pass the Senate.

CHIROPODIST AND PRACTICE OF MEDICINE.—A well-known chiropodist has been prosecuted in Paris for the illegal practice of medicine, on the grounds that his use of a scalpel and of poisonous substances for the removal of warts constituted an infringement of the law on this subject. The Court upheld the conclusions contained in the report of Professor Rieffel, to the effect that a scalpel and caustics could only be legally used by qualified medical men, and inflicted a fine of 100 francs, together with 300 francs damages, to be paid to the prosecuting medical association.

DURING THE "JOURNÉES MÉDICALES DE PARIS," which will take place during July, an exhibition of articles connected with medicine, pharmacy, surgery and hygiene is to be held at the Grand Palais in the Champs-Élysées. The committee of organisation of the exhibition consists of M. Jean Faure, president of the Pharmaceutical Manufacturers' Association; M. Félix Pellin, president of the Optical Manufacturers' Association; Professor Bordas; MM. Pierre Astier and Marcel Fumouze, pharmaceutical manufacturers. The offices are at the premises of the Comité Français des Expositions, 42 rue du Louvre, Paris.

CLINICAL THERMOMETERS.—The Director of Technical Education recently issued a circular to the prefects in which he states he has learnt that various pharmacists had been called upon by the representative of a German thermometer importer, who had informed them that the impossibility of obtaining properly stamped French clinical thermometers would excuse their selling the foreign unstamped article. The director is unaware that there has been a delay in stamping, but states that the test laboratory examines some 50,000 thermometers monthly, and that the president of the Pharmaceutical Accessories Association estimated the annual total requirements in France at 400,000 clinical thermometers. He, therefore, requests the prefects to see that any case of infringement of the law is duly prosecuted.

INCREASE IN CUSTOMS DUTIES.—The French Parliament has voted the raising of all Customs duties by 30 per cent. The turnover tax, at present 1.30 per cent., is to be increased to 2 per cent. in the case of wholesalers and semi-wholesalers. The proposed extension of taxation on proprietary medicines (pharmaceutical specialities) raised some little discussion in both houses. M. Pélissé objected to the proposition of the Finance Committee that all products which are recommended by advertisements, such as posters, announcements, circulars, or prospectuses, shall be regarded as pharmaceutical specialities. The representative of the Government failed to see why such pharmaceutical preparations should not be taxed, as was the case already with mineral waters. The existing system, he stated, by which specialities are exempt from taxation if the formula is printed on the label, gave rise to much fraud. Other speakers, however, subsequently pleaded in favour of making an exception for specialities which were only advertised to the medical profession, and M. Chéron's proposal to add the words, "when such advertising is of a nature to reach persons other than doctors," was accepted by the Government. The Senate then adopted the article. In the Chamber of Deputies, M. Émile Vincent pointed out that such a tax would affect about 50 per cent. of the products sold by pharmacists, and would naturally finally fall on the patients. The fiscal value of such a tax had been grossly over-estimated by the Finance Committee at 35,000,000 francs; it would really only produce a few millions.

American Notes

By "The Man from London"

HARD RUBBER SUBSTITUTE.—A fountain pen manufacturing company in Wisconsin has adopted a gun-cotton and camphor composition instead of hard rubber. The company's rubber bill was \$400,000 annually.

THE United States Public Health Service has decided to allow the sale of leaded gasoline, but this will now be called "motor fuel," instead of "gasoline." In this way the public will be warned against its use as a cleaning agent.

THE ROCKEFELLER FOUNDATION in New York, chartered in 1913 for the purpose of "promoting the well-being of mankind throughout the world," operates on an endowment well in excess of \$120,000,000, the income from which is over \$7,000,000 per year.

A BILL has been introduced in the Mississippi legislature making it unlawful to sell sweet spirit of nitre, Jamaica ginger, elixir of orange peel and other extracts and bitters except under certain conditions, the quantity of the preparation furnished not to exceed one fluid ounce a week to any one person.

NARCOTIC SITUATION IN LOUISIANA.—Dr. Carleton Simon, of New York, is making a narcotic survey of the State of Louisiana, at the request of the State authorities. He states that thousands of young persons are addicted to cannabis; the Louisiana addict calls this weed *mariahwana*, *muggles*, *moota* or *bombalaehi*.

THE American Pharmaceutical Association became affiliated with the American Association for the Advancement of Science at the annual meeting of the latter organisation. Any member of an affiliated association may, within the next three years, join the Scientific Association without paying the usual five-dollar fee.

DRUGGISTS AND NARCOTIC LAW.—Pleading guilty to a charge of violating the Harrison Narcotic Act, Roscoe Benson, owner of a San Francisco, Cal., drug store, was sentenced to three years' imprisonment. Another case where a druggist came to grief was reported recently. A police officer, so the story read, entered druggist's emporium, orders one gallon of the best "Paregoric." Druggist fills order, and is astounded at being arrested and charged with breaking two laws, viz., the prohibition law and Narcotic Act.

CHLORINE-TREATED OYSTERS.—The New York State Conservation Commission have been experimenting with chlorine for the purpose of sterilising oysters. The object of the process is to sterilise the outside of the oyster and to allow it, by natural processes, to free itself of such infected material as may be in its shell or body cavities. The oysters are placed in a large tank filled with water, showing an excess of free chlorine (0.2 parts per million of free chlorine in the water). Treatment lasts for 30 minutes, when the tank is drained, and oysters removed.

DRUG REGULATION IN U.S.—Dr. Dana Hubbard (in the "Medical Record and Journal") draws attention to the fact that in America there is very little drug regulation. Ammoniated mercury and bichloride of mercury are often used in cosmetic preparations, paraphenylenediamine, a chemical poison, is a frequent constituent of various hair dyes. Carbolic acid is often used to remove wrinkles. Lead and bismuth, aniline dyes, are often part of cosmetics. The lip stick has caused death to some of its users. There are 240,000,000 packages of rouge used in this country annually, and so an element of danger exists because these preparations are unregulated. Regarding hypnotics, Dr. Hubbard claims that this class of drugs is abused more often than they should be. Veronal, sulphonal, trional, medinal, and luminal are used nowadays, and veronal the most often. Boys and girls resort to hypnotics to obtain sleep, and investigation showed that the department stores catered to this trade. Young business women are taking up this practice of self-medication with great frequency. A special act regulates the sale of veronal, and such measures should be taken regarding all hypnotics. The author claims that the list of dangerous drugs in the British Pharmacopœia is not comprehensive; otherwise, Great Britain does better in regard to drug regulation than this part of the world.

Colonial and Foreign News

CZECHOSLOVAK CHEMICAL EXHIBITION.—The Czechoslovak Chemical Society is organising an exhibition of laboratory apparatus, the first of its kind, to be held from May 14 to 16 in the laboratories of the Chemical Institute of the Czech Technical High School, 13 Trojanova, Prague II. Intending exhibitors should apply for space to the above address; all exhibits will be admitted into the country free of duty.

BRAZILIAN ARMY PHARMACEUTICAL LABORATORY.—Colonel Luiz Fernandes Ramôa, director of the chemical-pharmaceutical laboratory of the Brazilian army, has introduced a new preparation for use as a uric acid solvent, consisting of an association of piperazine bitartrate, hexamethylenetetramine, lithium benzoate, and extract of *Laurus persea*. It is issued in the form of a granular powder, to which the title "Triurol" has been given by its originator.

PENSIONS FOR NORWEGIAN PHARMACISTS.—The Norwegian Social Department has appointed a committee, which includes three pharmacists, to study the question of providing a pension fund for members of the pharmaceutical profession. Three proposals have been submitted to the committee for consideration: (1) Should a separate pension fund for pharmacists only be created; (2) should pharmacists be included in the State pension fund for civil servants; (3) should they contribute to a private assurance society. The introduction of a pension fund on a compulsory basis, entailing the establishment of an age limit on reaching which pharmacists would have to retire, will necessitate a change in the existing Norwegian pharmacy law.

SALARIES IN DENMARK.—An agreement has been reached between Danmarks Apotekerforening, the association of proprietors of pharmacies in Denmark, and the Dansk Farmaceutforening, representing the organisation of pharmacy assistants, regulating the salaries to be paid to the pharmaceutical personnel. The basic monthly salary for qualified men is fixed at 262.50 kroner, with scaled increments according to seniority, ranging from 40 to 360 kroner. That is to say, after one year's service, calculated from the date of obtaining the diploma, the monthly salary of a qualified assistant amounts to 302.50 kroner, increasing up to 622.50 kroner, which is reached after nine years' service and constitutes the maximum. Those who have passed the pharmacy assistant's examination, but not the final qualification, receive the same basic salary; however, the age allowance is slightly lower, amounting to 32 kroner. The monthly salaries of these assistants range from 294.50 to 550.50 kroner, according to seniority.

PRESCRIBING HEROIC DRUGS IN BELGIUM.—Articles 15 and 30 of the Belgian instructions of 1885 to doctors and pharmacists regarding the prescribing and dispensing of heroic drugs have been abrogated by a Royal Decree, and replaced by the following new articles: In prescriptions the amounts must be stated only in grams, centigrams, milligrams, or in drops. The prescription must be signed and dated by the doctor, and as far as possible should contain directions for use. When a doctor prescribes an heroic medicament in excess of the maximum dose given in the pharmacopœia, he must write out the amount in full and append thereto his signature. Should a doctor prescribe an heroic medicament in excess of the maximum dose given in the pharmacopœia without complying with the foregoing requirement, the pharmacist must assure himself of the prescriber's intention. Should he not be able to communicate with the latter, the pharmacist shall reduce the amount to the dose given in the pharmacopœia; at the same time he shall immediately inform the writer of the prescription of the fact.

INDIAN EXPORT RESTRICTIONS.—A notification has been issued by the Government of India, prohibiting the export of raw opium by sea out of British India, save from the ports of Bombay and Calcutta. At the same time the taking by sea out of British India of medicinal opium, crude cocaine and ecgonine, morphine, diacetylmorphine, cocaine and their salts, all preparations official and

non-official (including the so-called anti-opium remedies) containing more than 0.2 per cent. of morphine or more than 0.1 per cent. of cocaine, all preparations containing diacetylmorphine, galenical preparations of Indian hemp, and Indian hemp, is prohibited except from the ports of Bombay, Calcutta, Madras, Rangoon and Karachi. The exports of any of these goods to a place outside British India shall not be allowed without an authorisation issued by an authority appointed in this behalf by the Governor-General in Council. In the case of raw opium, the Government of Bengal, and the Collector of Customs, Bombay, respectively, are the authorities competent to grant export authorisations, which shall not be issued unless special permission in each case has previously been obtained from the Government of India, unless the opium is being exported: (1) On behalf of the Government, or by a merchant who has purchased it from the Government under the rules governing the sale of Government opium for export; (2) to a country which has ratified the International Opium Convention of 1912, and an import certificate from the country of destination is produced. The Collectors of Customs at Calcutta, Bombay, Madras, Rangoon and Karachi are competent to grant export authorisations for opium derivatives, cocaine and Indian hemp, under the same conditions as for opium. However, in the case of Indian hemp, the production of a special certificate issued by the Government of the importing country is required, stating that the importation is approved for the purpose specified in the certificate, and that the resin or preparation of hemp will not be re-exported.

Business Changes

COLLINS, REYNOLDS & Co. have removed to Rencol Works, 4 Summer Hill Terrace, Birmingham.

MR. T. BELLAMY, Ph.C., Chelmsford and branches, has taken over the branch of E. P. Guest & Co., Ltd., chemists, at 31 High Street, Brentwood. Messrs. Guest retain their other shop in High Street, Brentwood.

FOLLOWING the amalgamation of Dick, Coates & Co., essential oil importers, London, E.C.3, and Mr. Lionel Cooper, chemical agent, London, W.C.1, the business will be carried on under the style of Coates & Cooper at 41 Great Tower Street, E.C.3.

MR. JOHN FREEMAN, brush manufacturer, 11 Moor Lane, London, E.C.2, has removed his offices and warehouses to Forest Brush Works, Longfellow Road, Walthamstow, E.17, to which address all communications should be addressed. The showrooms have been moved to 50-51 Fore Street, E.C.2.

FREDK. FINK & Co., 10 and 11 Mincing Lane, London, E.C.3, announce that they have incorporated their business with that of Henry Manser, Ltd., Vine Street, E.C.3, who have been connected with the shellac and gum business for over sixty years. The style of the firm will be Henry Manser, Ltd., with which is incorporated Fredk. Fink & Co. There will be no change of address or management, Mr. G. H. Brent continuing to take the same interest as heretofore.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Monday, April 19

Design and Industries Association, 6 Queen Square, Bloomsbury, London, W.C.1, at 8 p.m. Free lecture on shop window display by Mr. E. Coombes (display manager at John Barker's) and Mr. H. Trethowan (display manager at Heal's). Sir Herbert Morgan, K.B.E., in the chair. No tickets are required.

Thursday, April 22

The Chemical Society, Burlington House, Piccadilly, London, W.1, at 8 p.m. "An Analysis of the Ether, Part II: The Magnetic Fields in Atoms," by W. C. Reynolds.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN.—The annual dinner will be held at the Hotel Cecil, Strand, London, W.C., on May 13 at 6.45 p.m. for 7.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

C. I. YOUNG & Co., LTD. (P.C.).—Capital £10,000. Objects: To acquire the business of G. I. Young & Co., drysalters and merchants in Glasgow. R.O.: 58 Slatefield Street, Gallogate, Glasgow.

E. H. SPICER & Co., LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of chemists' sundriesmen and dealers in chemicals and hardware, manufacturers of articles sold by chemists, etc. The directors are: E. H. Spicer and C. S. Giddins. Solicitors: Holder & Wood, 29 Martin Lane, London, E.C.4.

QUAIN SUNLIGHT LAMPS, LTD. (P.C.).—Capital £5,000. Objects: To acquire any interests in patents relating to medical, surgical, therapeutic, hygienic or general appliances of any kind, particularly electric and other lamps of all kinds for producing light and heat, etc. R.O.: 17 Victoria Street, Westminster, London, S.W.1.

M. A. PRODUCTS (GLASGOW), LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of ladies' and gentlemen's hairdressers and hair specialists, masseurs, manicurists, perfumers, chemists, druggists, manufacturers of and dealers in soaps, etc. The directors are W. R. Becket, H. J. Black and H. H. Bennett. R.O.: 88 West Regent Street, Glasgow.

SWETLIZ & Co., LTD. (P.C.).—Capital £500. Objects: To carry on the business of general merchants and commission agents, importers and exporters of all classes of goods, manufactured or in their raw state, including chemical or patented or proprietary articles, etc. The directors are: D. Swetliz and H. C. Willmott. R.O.: 20 and 21 Queenhithe, London, E.C.

ALEX. W. ARDAGH, LTD. (P.C.).—Capital £1,600. Objects: To acquire the undertaking and all or any of the assets and liabilities of A. W. Ardagh, and to carry on the business of industrial, manufacturing and general chemists and manufacturers of and dealers in all kinds of toilet requisites, brush makers, box makers, printers, lithographers, etc. The directors are: A. W. Ardagh, chemist, Great North Road, Woodlands, Doncaster, and W. C. Pepper.

J. LESQUENDIEU, LTD. (P.C.).—Capital £3,150. Objects: To adopt agreements (1) with J. Lesquendieu, (2) with Parfumerie J. Lesquendieu, and (3) with La Reine des Crèmes, and to carry on business as dealers in England, Wales, Scotland and Ireland (including the Irish Free State), in all articles of perfumery bearing the trade mark of "Lesquendieu." The directors are: J. Lesquendieu, E. Calmon and W. Neate. R.O.: 8 Gerrard Street, London, W.1.

JEUNESSE, LTD. (P.C.).—Capital £2,000. Objects: To carry on the business of hairdressers, wholesale and retail perfumers, pharmaceutical, manufacturing and general chemists and druggists, hatters, hosiers, furriers, tailors, dressmakers and jewellers, manufacturers of and dealers in all kinds of toilet requisites, perfumes, boxes and cases, etc. The directors are: J. Woolf, Mrs. E. B. Mendoza, and H. B. Layton. R.O.: Arcade House, 27 Old Bond Street, London, W.

THOMAS & WILLIAM BAILEY, LTD. (P.C.).—Capital £5,000. Objects: To carry on the business of manufacturers of and dealers in all kinds of leather, wooden or metal cases, cabinets or bags, anatomical, orthopaedic, and surgical appliances, artificial eye and limb makers, splint, bandage, crutch, chair and stretcher makers, providers of all requisites for hospitals, patients, and invalids, etc. The directors are: T. Bailey and W. Bailey. R.O.: 231-243 St. John Street, Clerkenwell, London, E.C.

SURREY VARNISH AND ENAMEL Co., LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers of and dealers in varnishes, enamels, paints, pigments, colours, distempers, soaps and all requisites and sundries for oil and colour men and builders' merchants, manufacturing, wholesale, retail and dispensing chemists and druggists, etc. The subscribers (each with one ordinary share) are S. Leslie, Felbridge Court, Felbridge, East Grinstead, Sussex, chemist, and A. Howes.

HALTHORPE Co., LTD. (P.C.).—Capital £1,000. Objects: To acquire and deal with collieries, mines and minerals in Great Britain or elsewhere, or any options, licences, agreements or rights relating thereto, oil wells, lands and places which may seem capable of affording a supply of petroleum or mineral oils, to extract, transport, refine, purify and deal in such oils; to build and deal with freight locomotives, engines, motors, wagons, ships, aeroplanes, airships and other vessels; to deal in coal, coke, products of tar distillation, chemicals, fuel; to carry on business as chemists, druggists, etc. Solicitors: Parker, Rhodes & Co., 10 Moorgate Street, Rotherham.

WHEY PRODUCTS, LTD. (P.C.).—Capital £20,000. Objects: To adopt an agreement with E. A. Smith and W. C. D. Whetham as managers for and on behalf of the Whey Syndicate, to develop and turn to account the process mentioned therein for extraction of lactose and other products from whey, and to carry on the business of manufacturers, importers and exporters of and dealers in whey and products of all kinds, by any process from or by the treatment of whey or milk, and whether for consumption or for medicinal, industrial, scientific, technical, or other process, etc. The directors are: E. A. Smith, Longhills, Lincoln; Sir William J. Pope, K.B.E., Holmesdale, The Avenue, Cambridge; and W. C. D. Whetham, Upwater Lodge, Cambridge. Solicitor: E. E. Winterbotham, 1 Fredericks Place, London, E.C.2.

LEWIS & PEAT, LTD.—The directors have declared a further interim dividend of 10 per cent. for the current year on the ordinary shares. An interim dividend of 15 per cent., less tax, was declared in January.

BOOTS PURE DRUG Co., LTD.—Mr. Alexander L. Milne has relinquished the secretaryship, and in recognition of his long and useful service the directors have elected him to a seat on the Board. Mr. Milne's association with the company dates back to its very early years, if not its incorporation, and he has been responsible for the secretarial work not only of the Pure Drug Co., but also of all the retail subsidiaries. The new secretary is Mr. Arthur Sugden, who has hitherto been concerned mainly with the legal side of the company's activities.

LEVER BROS., LTD.—With reference to the publication of the annual accounts and the absence of a dividend on the Co-partnership shares, Lever Brothers have issued the following explanatory statement:—"Under the articles of association of the company, Co-partnership dividends are payable in any year only out of surplus profits remaining after payment of all Preference dividends and a dividend at the rate of 5 per cent. on the issued Ordinary capital. As no dividend on the Ordinary share capital for the year 1925 is recommended by the directors, it follows as of course that no Co-partnership dividend is payable or will be paid in respect of that year."

BARCLAY & SONS, LTD.—The thirtieth annual report of the directors for the year ended December 31, 1925, states that the profit, including £1,204 9s. 5d. brought forward, is £6,694 0s. 2d., out of which has been paid interest on debentures, £640 7s., leaving a balance of £6,053 13s. 2d., which the directors recommend should be applied as follows: To pay a dividend at the rate of 5 per cent. on the preference shares, less tax, £1,388 5s. 4d.; to pay a dividend at the rate of 5 per cent. on the ordinary shares, less tax, £760 17s.; to reserve for income-tax, £300; to write off capital expenditure, £196 0s. 4d.; to write off proprietary rights, £1,000; to carry to reserve, £1,000; to carry forward £1,408 10s., making a total of £6,053 13s. 2d. The retiring director is Mr. W. L. Way, who, being eligible, offers himself for re-election. Mr. H. G. Gowers, who has been appointed a director of the company, retires from the board and offers himself for election. The board have also appointed Mr. Lindsay Barclay and Mr. H. G. Gowers joint managing directors, and the shareholders are asked to sanction these appointments in accordance with the articles of association. Mr. Lindsay Barclay has been in the service of the company for twenty-five years and Mr. H. G. Gowers for fifteen years.

Pharmaceutical Society of Great Britain

Branch Meetings

Bromley.—A well-attended meeting of the West Kent Branch was held on March 24, when Mr. John C. White, of D. & W. Gibbs, Ltd., gave an interesting address (illustrated by lantern slides) on *Soap Manufacture*. The lecture was preceded by a social, during which refreshments were handed round. A number of ladies were present, and a very popular feature of the evening was the presence of Mrs. C. G. Pinchen (Beckenham) in the chair. At the conclusion of his address, Mr. White was thanked by Mr. Cyril B. Snow on behalf of the Branch.

Burnley.—A meeting of the Burnley Branch was held on April 8, under the presidency of Mr. U. Aylmer Coates, when the secretary read the annual report. The treasurer announced a balance in hand. A discussion took place on four points submitted from headquarters. It was decided to support Point 1 that the powers possessed by the general meeting be extended to Branch delegates. The title of pharmaceutical chemist, it was held, is not wanted, the feeling being expressed that the general possession of this title would allow others to filch the title valued far more—chemist and druggist. It was resolved that the title pharmaceutical chemist should not be applied to chemists and druggists, and that a protest be made against any other body being allowed to use the term chemist except registered chemists and druggists. It was also resolved that registered chemists pay an annual registration fee, and that the Council of the Pharmaceutical Society should have power to remove persons from the register.

Motherwell.—A district meeting of the Glasgow and South-Western Scottish Branch was held at Motherwell on March 24. Mr. Anthony McMillan (chairman) presided, and was supported by Messrs. H. P. Arthur, vice-chairman; Thos. Guthrie, treasurer of the Society; J. Rutherford Hill, resident secretary; A. B. Gilmour, Central Checking Bureau; and P. M. Duff, secretary and treasurer. There was a good attendance. The chairman, in welcoming the members, introduced Mr. Guthrie, who spoke of the various activities of the Society and explained the advance made from the early days to the present time. He then dealt with the financial position of the Society. Referring to the Benevolent Fund, in 1908 the membership of the Society was 6,070, and the subscriptions to the fund amounted to £1,528, an average of 5s. per member; in 1925 the membership had increased to 12,442 and the subscriptions had amounted to £1,712, or an average of 2s. 9d. In 1908 the purchasing power of 5s. was 5s.; in 1925 the purchasing power of 2s. 9d. was probably about 1s. 6d., so that the average subscription in 1925 was really 1s. 6d., as against 5s. in 1908. He gave these figures so that members, here and elsewhere, would ponder over them and give a little added support to the Benevolent Fund. Dealing with the Dangerous Drugs Acts, Mr. Guthrie said as a body chemists are in complete sympathy with the principles underlying this legislation. But the supply of these drugs is carried on through channels other than pharmaceutical. He was of opinion that pressure should be put on the authorities to obtain, if possible, some easement and curtailment of non-helpful and needlessly irritating elaboration of Regulations. In safeguarding the public from the risks of mischance due to poisons, certain regulations are admittedly advisable, but the real protection comes not from the slavish adherence to the letter of those, but from the training and skill of the pharmacist distributor. It was in the public interest, as well as our own, we should jealously watch and protest against every bureaucratic attempt to substitute mechanical regulations for this live and real protection. He was of the opinion that the time now was, when all those who were entitled and privileged to use the title chemist and druggist should unite, protest against and oppose any further encroachment on our position and privileges, as pharmacists, by the Home Office or any other department. It was bad for the public that anything should tend to weaken the most efficient protection of the pharmacist's

knowledge, and bad for the pharmacist, should he come to imagine that compliance with formal regulations in any way absolved him from his greater duty as a professional man. He directed attention to the interesting speech by the President, as reported lately in the pharmaceutical Press, on organisation with a desire to still further utilise the services of the branches of the Society. The branches in Scotland were conducting their part of the governing machinery with zest and vigour, and he was sure the active officials were thinking along the lines indicated by the President. The annual meeting, as at present, while fulfilling the letter of the law, was not representative. He would venture a suggestion which could be tried experimentally, as it did not involve legislation. The annual meeting of the Society must take place in London. Could it not be managed that a delegates' conference be held in London on the day of the annual meeting? Their Conference over, they, being on the spot, would be in a position to attend the annual meeting in their capacity as members of the Society. Although considerable advantage attaches to the present plan of holding delegates' conferences during the Conference week, the position was worth thinking over from the angle suggested by the President. Mr. J. Rutherford Hill explained the Dangerous Drugs Acts, the Labelling of Poisons Order, and the supply of industrial methylated spirit, and answered a number of questions on the various regulations. Mr. Chapman gave a report on the work of the League of Ex-Service Pharmacists. The company then partook of high tea, and afterwards an exhaustive discussion on education, Insurance dispensing remuneration, and various other trade matters took place.

Westminster Wisdom

Notes on Parliamentary Matters

BUDGET PREPARATIONS

Parliament reassembled on April 13 after the Easter recess, the chief business before the House of Commons being the Economy Bill, which is to be passed before the introduction of the Budget.

OPTICAL PRACTITIONERS' REGISTRATION

Mr. Kelly asked the Minister of Health on April 13 what action he proposes to take to meet the views expressed by the recent deputation from the joint council of qualified opticians with regard to the practice of sight testing; and if he will state the attitude of the Government with regard to the proposed Bill for the registration of optical practitioners?

Sir K. Wood: For reasons explained to the deputation referred to the Minister of Health does not propose to take any action in the matter, and the Government are not prepared to grant any facilities for the passage of the Bill.

WEIGHTS AND MEASURES ACT

Sir Douglas Newton asked the President of the Board of Trade on April 13 whether, in view of the inability of the Food Council to consider questions regarding the accuracy and relative merits of various types of weighing and measuring instruments at present in use, he is prepared to institute inquiries into the working and administration of the Weights and Measures Act.

The President of the Board of Trade (Sir Philip Cunliffe-Lister): As at present advised, I am not prepared to institute an inquiry of the kind suggested. The whole administration of the Weights and Measures Act is constantly under review, and the existing law appears to be sufficient to ensure that no undesirable type of weighing instrument shall be used in trade. It is, of course, impossible completely to prevent the fraudulent manipulation of any type of weighing machine, but I hope shortly to introduce a Bill to strengthen the law by making the giving of short weight a penal offence.

THE eighteenth congress of Russian surgeons will be held in Moscow on May 27 to 30.

Czechoslovak Speciality Order

SINCE the creation of the new state Czechoslovak pharmacists, as well as manufacturers, wholesalers and others interested in the supply of remedial agents, have found abundant matter for weighty discussions in advancing their oft-times conflicting views regarding the future system of pharmacy, and the regulations to be introduced for the manufacture and sale of pharmaceutical specialities. Legislation respecting both subjects, in substitution of the former Austrian enactments still in force, has been eagerly if somewhat anxiously expected, and now the new regulations for the manufacture and sale of pharmaceutical specialities have been issued as a government order, signed by all the fifteen ministers, and not, as was generally expected, embodied in a law, which would have had to be discussed in parliament. In the new regulations, which supersede all former enactments, a pharmaceutical speciality is defined as "a simple or compound medicament, consisting of one or more therapeutically active substances, prepared in accordance with a medical man's (or veterinary surgeon's) formula and directions and issued in a distinct form. Compared with existing remedies, it must be characterised by the possession of special advantages over the latter—i.e., new properties, stability, palatability, method of presentation, etc., advantages which render it superior to those it would display when dispensed in a form in which it can ordinarily be made up in a pharmacy. Pharmaceutical specialities are medicaments prepared ready for immediate use and intended for sale direct to the public, or for medical (or veterinary) use." Simple organotherapeutic and bacteriological preparations, vaccines, serums, natural as well as artificial mineral waters and the products of mineral springs do not come within this definition. In doubtful cases the final decision as to whether a preparation is to be regarded as a speciality or not will rest with the Ministry of Public Health and Corporal Instruction; when dealing with an article for veterinary use the decision will be reached in agreement with the Minister of Agriculture; if necessary, the Ministries may ask for an expression of opinion by the State Board of Health or by the Institute for the Examination of Medicaments. A distinction is made between "house specialities" and "general specialities"; the former are described as preparations made up by a pharmacist from remedies which may be sold over the counter, and the sale of which is confined to his own shop, while the latter are licensed for sale in all pharmacies.

REGISTRATION

The pharmacist who wishes to manufacture a pharmaceutical speciality, or place on the Czechoslovak market a preparation manufactured either in the country itself or abroad, must first submit an application for registration to the local district political authorities, in the case of a "house speciality," and to the Ministry of Public Health and Corporal Instruction in the case of "general specialities." The application must be accompanied by the following documents: (1) The prescription of a medical practitioner (veterinary surgeon) qualified to practise in Czechoslovakia, whose signature must be authenticated by a notary or a court of law, together with a declaration to the effect that the applicant is entitled to make use of this prescription. In the case of foreign specialities the authenticity of the doctor's (veterinary surgeon's) signature, who must be qualified to practise in the county of origin, must be certified by a representative of the Czechoslovak Republic. (2) Three original packages of the preparation, or at least one package with the text in manuscript but accompanied by an exact description of the package to be definitely adopted, which must be rigidly adhered to and presented when ready to the authorities prior to placing the speciality on the market. (3) Two samples of each of the non-official ingredients contained in the preparation in sufficient quantity to enable an analysis to be made, as well as to use them to prepare a certain quantity of the preparation, according to the declared

formula. (4) A calculation setting forth the cost of the wholesale production of the speciality (for at least 200 packages at one time), and also a statement of the retail price. If the retail price cannot be calculated on the basis of the official drug tariff it must follow the principles ruling in ordinary commercial transactions. (5) If the speciality is issued under a trade-marked name, proof of the registration of the name must be supplied. (6) Copies of pamphlets and advertising material used as enclosures. (7) In the case of foreign specialities a declaration, certified by a representative of the Czechoslovak Republic, to the effect that the manufacturer is a qualified pharmacist, or that the factory in which it is produced is licensed to manufacture medicinal preparations, and that the sale of the speciality, in question is licensed in the country of origin, if pharmaceutical specialities have in that country to be registered prior to being placed on the market. The stipulations under (3) and (7) do not apply to "house specialities." Every pharmaceutical speciality must bear on the container or wrapper a label in the Czechoslovak language; in addition thereto the text may also be printed in any other language. If red paper is not used for labels for medicaments intended for external use, or white paper for those destined for internal administration, the directions for use must be printed on special distinctive bands of red or white paper respectively. The principal label (in Czech) must contain the following particulars: (1) The name of the speciality, which must correspond with the contents and the form of its composition; this may be accompanied by a fancy name or trade-marked designation. (2) The names of the manufacturer and of the applicant for registration. (3) Disclosure of the active substances, together with the amounts present. (4) If the speciality contains substances which may be delivered only on a medical practitioner's (veterinary surgeon's) prescription a statement must appear to the effect that the preparation may only be supplied on a medical man's (veterinary surgeon's) prescription. (5) If the preparation contains ingredients which either alone or in the mixture in which they are present are liable to undergo changes in the course of time, the date until when it will retain its activity must be stated. (6) Simple directions for use. (7) The retail price in Czechoslovak currency. (8) The weight or number of the contents. For the duration of the existing extraordinary fluctuations in prices the Ministry of Health and Corporal Instruction is empowered not to require the statement of the retail price on the label. (9) Registration number; this does not apply to "house specialities." In granting the authorisation for the manufacture and sale of a pharmaceutical speciality the Ministry may attach certain conditions to this permission which the holder of the authorisation is compelled to adhere to.

REFUSAL OF REGISTRATION

The Ministry will not grant an authorisation in the following instances: (1) If the preparation does not come within the definition of a speciality as laid down in Article 1. (2) If the composition does not correspond with the disclosure made in the application. (3) If the ingredients are incompatible; if the chemical substances present cannot exist as such and consequently become inactive or yield a substance displaying an undesirable action. (4) If the ingredients indicated in the method of preparation do not correspond qualitatively or quantitatively with the composition of the preparation when submitted to analysis. (5) If its sale would be contrary to the interests of public health, or to police regulations dealing with veterinary matters. (6) If the prescribed retail price is excessive. (7) For economic reasons. (8) If another speciality has already been licensed for sale under the same fancy name, which, however, has not been registered as a trade-mark. In the case of the authorities refusing to register a speciality the applicant may submit within a specified period an appeal to the Ministry of Health and Corporal Instruction. The final decision rests with this Ministry, which, if necessary, may call for an expression of opinion by the Institute for the Examination of Medicaments or by the State Board of Health. Pharmaceutical specialities may only be sold provided the composition, the label, the name

and the enclosed advertisements have been duly approved, and only in the exact style, etc., in which these have been passed; the same applies to advertisements in the Press. Unregistered specialties, as well as the so-called "house specialties," may not be publicly advertised. Any change in the composition of a registered specialty entails a fresh application for registration, and an alteration in the name, retail price, or in advertisements must first be approved by the authorities, following the submission of a statement in which the grounds for any such modification are substantiated. A list of registered specialties, with registration numbers, will be published by the Ministry in its official gazette, "Věstník ministerstva veřejného zdravotnictví a tělesné výchovy." The pharmacist in business is required to supply at his own expense at least one package of every pharmaceutical specialty kept in stock for examination when his business is visited by the official inspector of pharmacies. The Ministry may, as a special exception, permit the sale in pharmacies with a large foreign clientele of a certain number of foreign pharmaceutical specialties, to be specifically enumerated, without requiring the same to be registered; the pharmacist may, however, be required to furnish securities that these will only be sold locally. Pharmaceutical specialties licensed under former enactments may still be manufactured and sold, but application for registration in accordance with these regulations must be made within one year, otherwise the authorisation will be cancelled.

While this order deals only with the manufacture of pharmaceutical specialties by pharmacists in business as such, the Minister of Commerce is engaged in drafting a bill to regulate the manufacture, and sale, of this class of preparations by chemical firms, an entirely separate problem. At present, permission to manufacture a pharmaceutical preparation is granted only to a qualified pharmacist, and this authorisation is strictly personal.

Chemists' Windows

Photographs of windows sent to the Editor for reproduction should be accompanied by a note on how the displays were arranged.

A Scientific Window

ONCE a year Wiggin & Son, pharmaceutical chemists, Ipswich (Mr. J. C. Wiggin, Ph.C., proprietor), have a fortnight's window show of a scientific nature. This year's display comprises laboratory glassware (including



distillation apparatus, burette, Nessler glasses, etc.); general and research chemicals; tr. rhei co. in process of percolation; a chart of the manufacture of aspirin; raw materials for syrup of figs; a liquid paraffin display with appropriate cards; and materia medica specimens (cascara, cinchona, ipecacuanha, and so forth). Some of the C. & D. reproductions of pictures of old laboratories have been used effectively.

Some Poison Problems

ADDRESSING a conference of nurses and others in London on April 13, Dr. Edwin Smith, lecturer on forensic medicine and toxicology at St. Thomas's Hospital, and coroner for North-East London, remarked ("Daily Telegraph") that the private practitioner should have a properly equipped bag for use in case of poisoning. Very few doctors, he declared, were prepared for adequate attendance on cases of poisoning. They simply relied upon finding what they wanted when they got to the patient, and while usually prompt in administering an emetic they also showed a surprising want of care or knowledge in following up the treatment with the proper antidote. That was a somewhat serious criticism, but it was based on accurate knowledge of the conditions of medical practice in London and elsewhere. Upon the need for extreme care in the handling of poisons, Dr. Smith said that chemists were subject to rigid rules in this matter, but they did not apply elsewhere, and that very fact should make for watchfulness to ensure that familiarity did not breed contempt. Nurses had been led into error through mistaking the symbols used in doctors' prescriptions. Doctors as a class were not noted for clear writing. Then, too, the alternative names for some of the poisons used were sometimes misleading. The present poison regulations were drastic in one sense but very unsatisfactory in another. No one could get from a chemist $\frac{1}{10}$ gr. of arsenic except by a procedure hedged round with safeguards against accident and crime. But such poisons as spirit of salt and salt of lemon could be sold at an oilshop, even to a child, without hindrance. Further, the bottle or package in such cases was required to be labelled "Poisonous"—a word which surely tended to mislead by suggesting something of lesser virulence hardly calling for the more definite name of "Poison."

On his re-election as President of the Society for the Study of Inebriety on April 13, Sir William Willcox, M.D., delivered an address on drug addiction, which, he said ("Daily Telegraph"), was very prevalent in some parts of the British Empire, though not in this country. It had been estimated that in the United States there were over 1,000,000 drug addicts, and in the city of New York 1.8 per cent. of the population were addicts. "Drug addiction is a disease rather than a vice," added Sir William, "and, like other diseases, it is infectious. It is spread by psychotherapeutic methods, one person influencing another." We were immeasurably more successful in this country, continued the speaker, in controlling traffic in addiction drugs than were the Americans, and an enormous amount of drugs got to the public in America by illegal ways. It was of the utmost importance that members of the medical profession and students should realise that it was only in exceptional cases that morphine and such drugs should be prescribed, especially if used hypodermically. Other drugs should, if possible, be administered, and "dangerous" drugs should never be employed for the relief of mental strain, worry, grief, or distress. As a profession doctors were extraordinarily careful in the prescription of addiction drugs. Sir William instanced one case of a distinguished person who before any arduous lecture took a very small dose of a drug, and another of a young student who had failed in his final examination time after time. Eventually he was given an opium pill, and passed successfully. "I have known medical students who have taken drugs to see what it was like," commented Sir William, "and I have known them die through it. Then I know of a brilliant man, who has one of the strongest wills of my experience, who took morphine for pain, and said, 'Other people must not take it, but I have a strong will.' He has been an addict for fifteen years. I do not believe anyone has a strong enough will to withstand drug addiction if they take the drug for one month or more."

UNITED GLASS BOTTLE MANUFACTURERS, LTD.—Mr. Max J. Bonn, a director of Helbert, Wagg & Co., has accepted a seat on the board.

Irish Druggists' Meeting

THE annual meeting of the Ulster Retail Drug Trade Association was held on March 24, in the rooms of the Chemists' and Druggists' Society of Ireland, 11, Waring Street, Belfast, the outgoing President (Mr. J. C. Culbert) in the chair. There was a good attendance. Mr. W. J. Stevenson (secretary) read the committee's report, in which it was stated that the membership of the association has been maintained at 309. The work of the committee was reviewed, and among the items mentioned were:—The meeting in May between retailers and wholesalers with a view to closer co-operation in local affairs, and joint representation in Proprietary Articles Trade Association matters; the question of universal half-holiday closing; the supplying of a chlorodyne without morphine and hydrocyanic acid described as the U.R.D.T.A. formula; the distribution of circulars on poisons laws. The President, in moving the adoption of the report, regretted that the attendance at general committee meetings was not what it ought to be. The universal half-holiday closing question had been before the committee on several occasions, and gratification was expressed that the Corporation was, after many years, doing something to have it enforced. In arranging prices during the year, the committee considered the trade as a whole, and believed it was better to lower prices to a reasonable level and keep the sale of certain articles in the drug trade, rather than keep prices at a high level and let the articles slip into other channels of distribution. In this connection, the new committee would have to face the fact of the "Cash on Delivery" system, which would shortly be instituted, and, whether they liked it or not, every price would have to be considered in relation to the possibility of this new form of trading. It would be noted that some of their own members had been found to be cutting prices, and if that went on to any extent, it must be taken as an expression of opinion that prices are too high. Members who were not subject to such intense competition as others, were reminded that the list prices are minimum prices only. It was interesting to note that price-cutting had become a punishable offence in Spain, where the arguments long used here have received the approval of the Government. Lately he was astonished to learn that certain trade associations, such as newsagents, had so perfected their organisation that no new business is permitted to be opened unless the local association recommended it, after considering the applicant, the needs of the district, etc. He commended the idea to their very careful consideration. Members had not kept in touch with the Association as they might and should. On several occasions information had only reached the committee by a roundabout method, when a 'phone message or letter to the secretary would have brought the matter under review at once. Efforts were being made to induce members of the trade to use bonus tickets. This was entirely against the principle of price protection, and was a breach of the pledge signed by each member. He mentioned this as a warning. Members of the trade holding methylated spirit licences should be very much on their guard, as there are two confirmed methylated spirit drinkers striving to obtain supplies. The report was unanimously adopted.

Mr. W. J. Rankin (hon. treasurer) presented the balance-sheet, which showed a substantial sum on hand. This was adopted. The committee had decided to recommend that the subscription for the ensuing year be 15s., instead of one guinea, and the recommendation was passed without discussion.

ELECTION OF OFFICERS

Mr. Culbert, in moving the election of Mr. Jas. Macauley as *President* for the next year, said that he was the senior Vice-President, and a business neighbour of his own, and he had the utmost pleasure in proposing that he take the chair. Mr. W. J. Hardy seconded, and the resolution was passed by acclamation, and the chair was then taken, amid applause, by Mr. Macauley, who expressed his thanks. Mr. A. W. Mann was appointed *Senior Vice-President*, and Mr. D. A. Taylor *Junior Vice-President*. The following were appointed *Honorary Vice-Presidents*:—Messrs. Jas. Tate, R. W. McKnight, S. Gibson, J.P., W. C. Dobbin, J. A. Woodside, J. Montgomery, J. Guiler,

H. G. Pring, J.P., W. J. Hardy, S. Suffern, S. Fleming, S. Nevin, F. T. Smith, J.P. (Antrim), H. Lancashire, J.P. (Ballymena), W. E. Wilson, A. Wilson, J. Moffet and J. C. Culbert. The following *Committee* was elected:—Messrs. J. Dundee, C. B. Abernethy, E. J. Roberts, R. Kells, J. Adams, R. I. Edwards, J. McDowell, J. Guthrie, J. Taggart, G. Johnson, W. J. Busby, S. Orr (Lisburn), W. T. Gordon (old); H. Crail, F. P. Armstrong, G. Busby, J. F. Browne, F. Boyle, and J. A. McRoberts (new).

Mr. Culbert proposed the re-election of Mr. W. J. Rankin as *Honorary Treasurer*, and Mr. Fred Storey seconded the motion, which was passed by acclamation. The representatives to the Chamber of Trade, Messrs. A. W. Mann, J. Moffet, A. Wilson, W. E. Wilson, and R. I. Edwards, were re-elected. The other appointments were made as follows: *Wholesale Section, General Committee*, Mr. F. Moore (T. McMullan & Co.), Mr. S. Haydock (J. & J. Haslett, Ltd.), Mr. A. M. Gamble (Shaw & Jamison, Ltd.), Mr. F. Storey (F. Storey, Ltd.); *Hon. Secretaries*, Mr. S. Suffern, 304 Shankhill Road, Belfast; Mr. S. J. Hudson, 355 Beersbridge Road, Belfast; *Auditors*, Mr. W. Martin and Mr. S. McLoughlin; *Representatives on Belfast Wholesale Merchants' Association*, Mr. J. C. Culbert and Mr. J. Macauley. A vote of thanks to Mr. Culbert for his services in the chair was passed by acclamation. Mr. Culbert moved a resolution to establish a formula for chlorodyne, but it was pointed out that the matter was under discussion across the channel, and it was agreed to send the matter back to the committee with power to act. Mr. Moffet referred eulogistically to the work of the secretary, Mr. Stevenson, and suggested increasing his salary as a recognition of his services. The matter was referred to the committee.

HALF-HOLIDAY QUESTIONS

The President invited expression of opinion on the half-holiday question, observing that there had been a considerable number of prosecutions during the past year. Mr. Mann said the position was that what suited down-town men did not suit suburban men. This half-holiday did not suit the down-town men, who could not afford to close on Wednesday afternoons. The suburban men ought to be satisfied when they had brought the down-town men to court. Mr. Hudson said the suburban men had brought no one to court. The suburban men had been opening for an hour in the evenings, and it met with the approval of their customers. He only sold medicines during that hour. The suburban men had to observe the law for the last fourteen years, but the down-town men had only discovered it. Mr. Edwards said he had refused to sell preparations on the half-day, and customers told him they could get them elsewhere. It was refreshing to read of the prosecutions. Acts of Parliament were for all and not for some of the trade. There was nothing to prevent any man keeping open provided he complied with the regulations. Mr. Crail said it was hardly worth while keeping open on Wednesday afternoon for the small amount of legitimate things they could sell. It raised trouble with their customers, who did not like to be refused what they wanted. Mr. Culbert moved that they express gratification that the Corporation had wakened up to the fact that there was a Shop Hours Act, and were now putting it into operation. Mr. Hudson seconded. Mr. Dundee said that the law as applied to a chemist's shop was absurd. He moved that they apply for a complete exemption order to open and close when they liked. After further discussion he withdrew his amendment, whereupon Mr. Hardy moved that the Government be asked to provide that there be one statutory day for the half-holiday, let it be Wednesday or Saturday. Mr. Dundee seconded. Mr. Rankin: How do they get along in Dublin with no half-holiday at all? Mr. Dundee said if Mr. Culbert's motion was passed he would take it as a vote of censure on himself, as he was one of those singled out by the inspector. Mr. Moffet suggested that all the motions and amendments be withdrawn. Mr. Culbert said he would withdraw, but it was quite evident the feeling of the meeting was in favour of it.

Mr. Moffet suggested having a bed in the Royal Victoria Hospital in the name of the Association, with the name of Mr. W. J. Rankin incorporated with it, as he worked hard both for the association and the hospital. This was referred to the committee.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1926, p. 309.

(From "The Trade-marks Journal," March 31, 1926.)

- * "PUNCTUALITY" MORNING POWDER," with directions and name of applicants; for aperient medicinal powders (3). By Lilian H. Maskew, 112 Bold Street, Liverpool. B466,089.
- "TREMOL," on oval representation of Philoctetes; for medicinal chemicals (3). By National College of Health Co., Ltd., 208 Great Clowes Street, Broughton, Manchester. 467,120 (Associated).
- "VOLOL"; for medicinal chemicals (3). By Kay Brothers, Ltd., St. Petersburg Mills, Stockport. 467,382.
- Device of tower and chimneys on circle; for all goods (3). By J. D. Riedel Aktiengesellschaft, 1-32 Riedelstrasse, Berlin-Brütz, Prussia. 467,524.
- "RECTOPEDE"; for surgical instruments, etc. (11). By F. G. Page, 6 Lyndhurst Road, London, N.W.3. 466,235.
- Monogram "B. C. R." on circle, surrounded by words "Bio-Chemistry, The Science of Health" ("Bio-Chemistry" disclaimed); for food substances (42). By Bio-Chemical Remedies, Ltd., 61 Chancery Lane, London, W.C.2. 466,572.
- "ORANGE-BLOSSOM"; for beverages, etc. (42). By Kia-Ora, Ltd., 35 Rushworth Street, London, S.E.1. 467,067 (Associated).
- "FABRICOL"; for food substances (42). By Osmond & Son, Ltd., Standard Chemical Works, Doughty Road, Grimsby. 467,114 (Associated).
- "UPHOSMA"; for food substances (42). By United Phosphate and Malt Co., Ltd., 4 South Place, London, E.C.2. 467,209.
- "CIT-RAK"; for mineral waters, etc. (44). By J. Robertson & Son, 44 Taft's Lane, Dundee. 466,236.
- "ZEE-DA" ("Z D" disclaimed); for liquid toilet preparations for the hands and face (48). By Alice M. Jackson, 645 Fulham Road, London, S.W.6. 462,023.
- "FIXORESIN"; for goods (48). By Schimmel & Co., 1 Fritzschestrasse, Miltitz, nr. Leipzig. 465,785.
- "DETOXOL"; for dentifrices (48). By The Wm. S. Merrell Co., Corner of Fifth and Pike Streets, Cincinnati, Ohio, U.S.A. 465,811.
- "ROSOFA"; for lathering creams and face powder (48). By H. Davies, Clifton House, Henham, Stansted, Essex. 466,407.
- "OSANA"; for toilet preparations (48). By A. Fabre, 27 Finsbury Street, London, E.C.2. 466,669.
- "FLEURS DOXZOIN" ("Fleurs" disclaimed); for perfumery, etc. (48). By International Chemical Co., Ltd., 7 Wybert Street, Munster Square, London, N.W.1. 466,841 (Associated).
- "GOLDEN GLORY," with picture of dancing fairy on oblong shape; with conventional border; "GOLDEN GLORY," on oblong picture of dancing fairies, with floral border; "GOLDEN GLORY," on square picture of girl seated among flowers; for perfumery, etc. (48). By A. & F. Pears, Ltd., 71-75 New Oxford Street, London, W.C.1. 467,068/070/069 (Associated).
- "MIDAS"; for perfumery, etc. (48). By G. W. Goodwin & Son, Ordsall Lane Soap Works, Manchester. 467,154.
- "MORNEVE"; for dentifrices (48). By H. J. Fryer, 22 Bradford Avenue, Cleethorpes, Lincolnshire. 467,259.
- "SUMA"; for chemicals (1). By The Sugar Manufacturers' Supply Co., Ltd., 2 St. Dunstan's Hill, London, E.C.3. 455,773. (Associated).
- "KOHYDROL"; for water-softening preparations, etc. (1). By E. De Haen Aktiengesellschaft, Seelze, Germany. 463,996.
- "FLORESENE"; for disinfectants (2). By The Swift Manufacturing Co., 67 Cowcaddens, Glasgow. B466,064.
- "CHINISINE"; for veterinary chemicals (2). By B. C. Tipper & Son, Ltd., 43 and 45 Homer Street, Balsall Heath, Birmingham. 466,215.
- "SPERKIT"; for cultures of cellulose-fermenting organisms for agriculture, etc. (2). By Fäkalorif Studien Gesellschaft mit Beschränkter Haftung, 94 Schnorrstrasse, Dresden, Germany. 467,229.
- "SINRAI"; for preparations for destroying insects and rats (2). By Morris, Little & Son, Ltd., 42 Hallgate, Doncaster. 467,376.
- "OMARONE"; for disinfectants (2). By Cumming Brothers, 26 Victoria Street, Glasgow. 467,376.
- "IOOTO" and "IWURMO"; for all goods (2). By W. Stevens & Co., 31 East Hill, Wandsworth, S.W.18. 467,479/480.

- "PARKURE," "PARKEAL," and "PARKEZE"; for medicinal chemicals (3) and for perfumery, etc. (48). "PARKOLA"; for perfumery, etc. (48). By R. Parkinson & Sons, Curzon Street, Burnley. 464,020/021/024/025/026/027/023. (Associated).
- "CHEST AND THROAT LIXTURE OR SYRUP OF LINSEED AND LIQVORICE," with label device; for syrup of linseed and liquorice (3). By Morris & Jones, Ltd., 82 Whitechapel, Liverpool. B465,005.
- "RUXIN"; for ointments (3). By I. Howells, Treweek's Pharmacy, Main Street, Pembroke, S. Wales. 467,111.
- "SPANCO"; for all goods (3). By A. S. Price & Co., Ltd., 181 High Street, Blackheath, Staffordshire. 467,791.
- "CYLKO"; for photographic papers (33). By Ansco Photo-products, Incorporated, 56 Pine Street, Manhattan, New York, U.S.A. 467,564. (Associated).
- "GRANUTOSE"; for a nut food (42). By The International Health Association, Ltd., Stanborough Park, Watford. 465,118. (Associated).
- "LEMROSE"; for beverages (42). By L. Rose & Co., Ltd., 89 Worship Street, London, E.C.2. 467,547. (Associated).
- "PAROL"; for a hair preparation (48). By F. C. Symonds, 41 London Road South, Lowestoft. 454,971.
- "ZOGLO"; for all goods (43). By Emily Dutton, 30 Clifton Road, Maida Vale, London, W.9. 466,136.
- "SMEESONA"; for hair cream (48). By E. Smith & Sons, 96 West Street, Boston. 466,443.
- "JULANAR"; for perfumery, etc. (48). By Heppells, Ltd., 16 Grosvenor Place, London, S.W.1. 466,639.
- "SILVOLA"; for soap (48). By G. W. Goodwin & Son, Ordsall Lane Soap Works, Manchester. 467,132.
- "LUSTONA"; for perfumery, etc. (48). By Similax, Ltd., 1 Guildhall Chambers, Basinghall Street, London, E.C.2. 467,201.
- "TREMIAIR"; for perfumery, etc. (48). By Louvain Preparations, Ltd., 43 Crogsland Road, London, N.W.1. 467,403.

(From "The Trade-marks Journal," April 7, 1926.)

- "MAY QUEEN"; for goods (1). By L. Constad & Co., Ltd., 109-113 Fore Street, Edmonton, London, N.18. 467,403.
- "JEYES' CATTLE WASH," with device of sun and sea; for a cattle wash (2). By Jeyses' Sanitary Compounds Co., Ltd., 64 Cannon Street, London, E.C.4. 465,216. (Associated).
- "HAL-ETZ-OWN," with device and words "Insecticide," "white fly," and "simply spray"; for insect-destroying preparations (2). By A. R. Hallett, 433 Stoney Stanton Road, Coventry. 467,379.
- Label design, including words, "LA JOUVENCE DE L'ABBÉ SOURY," "L'ABBÉ DELARUE," and signature "Mag. Dumontier" ("Mag. Dumontier" and letters "A B" disclaimed); for a medicine (3). By G. H. and Marie C. Cousin, 49 Rue du Val d'Eaupert, Rouen, France. 464,973.
- "HERMOSOL"; for all goods (3). By Henry J. Smith (Chemists), Ltd., 2 Stanley Road, Acton, London, W.3. 465,557. (Associated).
- "SYLVESTRINE"; for ointment (3). By T. L. Reeve, Beech Lawn, Beechnut Lane, Solihull, nr. Birmingham. 465,961.
- "TRYPOXYL"; for medicinal chemicals (3). By Les Etablissements Poulenc Frères, 86 Rue Vieille-du-Temple, Paris. 466,935.
- "GUMALENE"; for medicinal chemicals (3). By A. J. Dann and W. A. Woodhall, Carrington Field Street, Stockport. 467,301.
- "SNOWFLAKES"; for sanitary towels (11). By J. E. Battersby, 12 Leigham Avenue, Streatham, S.W.16. 465,912.
- "BUS BRAND," with picture of motor bus; for perfumery, etc. (48). By G. W. Goodwin & Son, Ordsall Lane Soap Works, Manchester. 467,607. (Associated).

ALTERATION OF THE REGISTER

According to the "Trade-marks Journal" of April 7, 1926, the trade-mark of the Camomile Tonic Co. has been altered by the substitution of the word "Wav-alone" for "Wavalone." 453,784.

RECTIFICATION OF THE REGISTER

According to the "Trade-marks Journal" of April 7, 1926, the trade-marks No. 268,199 and No. 268,200 registered by The Tower Soap Co. have been removed from the Trade-Marks Register in pursuance of an order made under the appeal of The Erasmie Co., Ltd.

North London Dinner

THE annual dinner of the North London Pharmaceutical Association was held at the Restaurant Frascati, Oxford Street, W., on April 8, the President (Mr. J. T. Walters) in the chair. The handsome Alexandra Room was filled with a gathering, numbering upwards of 200, duly representative of pharmacy and the allied wholesale trades. Supporting the President at the chief table were Mr. Philip F. Rowsell (President of the Pharmaceutical Society), Mrs. Walters, Mr. G. F. Barratt, Mrs. Beardsley, Mr. and Mrs. C. G. Bonner, Mr. and Mrs. William Chalmers, Mr. T. W. Cleave, Mr. R. F. Edkins, Mr. J. P. Ellerington, Mr. W. B. Fald-



MR. J. T. WALTERS

ing, Mr. F. W. Gwinn, Mr. J. Haines, Mr. and Mrs. F. G. Hines, Mr. A. H. Jenkin, Mr. and Mrs. C. A. Noble, and Mr. F. G. Wells. The spur tables were in charge respectively of Messrs. J. Noble, J. Hearle, W. E. Swanston, Herbert Skinner, R. H. L. Watson (Vice-President of the Association), J. Downing, and J. C. Carter; and among others present were Mr. L. Kirkpatrick, Mr. F. A. Lawman, Mr. Thomas Marns, Mr. H. G. Mumford, Mr. J. Royle, Mr. G. A. Tocher, and Mr. F. Weight (S. Maw, Son & Sons, Ltd.). The amenities of a capital dinner were enhanced by a distribution of fans to the ladies, and by a simplification of the ritual which often prescribes nprising at inconvenient moments. Before the speechmaking was entered upon a telegram was dispatched, on the President's suggestion, to Mrs. Skinner, now recuperating after illness—to be reciprocated after a few minutes by one of good wishes from Mrs. Skinner, which had "crossed" that from the diners. The toasts (other than the loyal toast) were two in number. The proposal of the first, "The Pharmaceutical Society of Great Britain," was allotted to Mr. R. H. L. Watson, whose felicity of phrasing indicated clearly that he upholds the prestige of pharmacy on his borough council. Mr. Watson, after entertaining the company with a selection of his early views on Bloomsbury Square and a droll anecdote bearing on the British Pharmaceutical Codex, went on to express the view that pharmacy had been sailing in calm seas of late. He feared that the ship was so filled with red tape that the Plimsoll line was in danger of being submerged. They had in their Association a member of the Council, Mr. Skinner, than whom no one had put in more unselfish work for pharmacy. Mr. Rowsell, responding, got quickly into touch with his audience by a reference to a miniature symposium on Devonshire cream which took place at last year's dinner of the Association. He voiced the sympathy and congratulations of the gathering to Mr. Skinner at the improvement in Mrs. Skinner's health. The remainder of the President's speech was devoted to comment on the proposed Regulations for the sale of diethylbarbituric acid and its derivatives. If these articles were to be controlled, medical men, he suggested, should be subject to identical regulations. Personally, he would not object to articles of this group being sold on prescription only and dispensed by a pharmacist. He knew of no trade in which orders were refused in the way chemists refused them. Before sitting down, Mr. Rowsell congratulated Mr. Watson on his speech, adding that there ought to be no council on which a pharmacist is not found. Mr. Hines, in proposing the toast of "The North London Pharmaceutical Association," remarked that the activities of the Pharmaceutical Society in recent years had been entirely on the domestic side. They had secured all the means for building bonny pharmacists. He was concerned about the future of these pharmacists. When-

ever a political matter came before the Council the phrase thrown at members was "the time is inopportune." He did not fear the next move—he never associated the word "pharmacy" with the word "funk." In an emergency he was sure that an appeal to the North London Association would not be in vain. Mr. Walters, in the course of an eloquent reply, pointed out that a Welshman was filling the presidential chair for the first time. The good ship "North London" was in command of a first-class captain, mate and purser, and its crew was the finest that ever manned a vessel. He thought they had rounded the Cape of Good Hope. Behind him hung the Maw Challenge Shield, again in the possession of the Association. He thought that their social activity justified itself; it broke down suspicion and jealousy. If a crisis arose North London would be heard, as in the past, fighting for the rights of the ordinary pharmacist. Rising again shortly afterwards, the President proposed an impromptu toast to Mr. Herbert Skinner, which was given with musical honours. Mr. Skinner, in a brief reply, thanked the President and Mrs. Walters for the help they had constantly given. Between and after the speeches two vocalists and a pianist discoursed pleasant music; and so expeditiously did the genial President handle the numerous events that the floor was cleared for dancing shortly after 9.30, giving ample time for the festive conclusion of a thoroughly enjoyable evening.

British Pharmaceutical Conference, 1926

Committees of the Conference

THE following is a list of committees and their members appointed in connection with the forthcoming British Pharmaceutical Conference at Leicester (with the exception of the ladies' committee):—

Local Reception Committee:—Arthur E. Young, *Chairman*; F. H. Clark, *Vice-Chairman*; E. L. Burrows, *Hon. Treasurer*; J. Barker, *Hon. Secretary*.

W. S. Allwood	C. J. Heselton	W. Raven
F. G. Blockley	G. H. Hannam	G. H. Rimmington
H. R. Bream	D. G. Hackett	P. C. G. Stiles
E. H. F. Brittain	W. T. Hind	S. S. Squires
E. H. Butler	H. F. Ingram	A. H. Spiers
J. F. Butlin	C. Jones	F. W. Thompson
H. L. Blain	T. M. Liddle	E. A. Tomlin
H. W. Clear	H. A. Martin	A. E. Wand
S. E. Cleaver	G. E. Marfitt	E. B. Ward
H. H. Dennis	S. T. Palmer	W. Westhead
R. F. Dickson	C. Partington	Dr. A. S. Woods
E. A. A. Fry	T. C. Peberdy	F. T. Wilby
S. R. Hancock	F. Purse	F. J. Young

Publicity Committee.—E. B. Ward (*Chairman*), E. H. F. Brittain, F. G. Blockley, H. W. Clear, E. A. A. Fry, D. G. Hackett, W. T. Hind, H. A. Martin, S. T. Palmer.

Entertainments Committee.—S. S. Squires (*Chairman*), H. R. Bream, H. H. Dennis, G. H. Hannam, H. F. Ingram, C. Partington, T. C. Peberdy, W. Raven, G. H. Rimmington, Dr. A. S. Woods, W. Westhead.

Sports Committee.—G. E. Marfitt (*Chairman*), H. L. Blain, S. R. Hancock, C. Jones, F. Purse, E. A. Tomlin, P. C. G. Stiles, A. E. Wand.

Housing Committee.—E. H. Butler (*Chairman*), W. S. Allwood, J. F. Butlin, R. F. Dickson, C. J. Heselton, T. M. Liddle, F. Purse, A. H. Spiers, F. W. Thompson.

SMOKELESS COAL PROBLEM.—"Something like two million tons of the [sulphur] fiend are set free every year by burning coal in fires and broadcasting its remains. When we use soft coke our troubles are to be over and our urban skies blue. The fiend is not so easily exorcised. It seems natural to think that stewing him at a red heat would drive him out, but it is not so. When we have got rid of smoke we shall still be asking the researcher to tell us what to do about the millions of tons of sulphuric acid in small particles that drink like any fish and will shade our smokeless skies with clouds of their own making."—Sir Napier Shaw in "The Morning Post."

Modern Physico-Chemistry and its Pharmaceutical Applications

By W. A. Whatmough

XXXIII. Heat a Mode of Motion (or Etherial Dynamics)—I

EXPERIMENTAL verification, or agreement between the results of observation and calculation, is a requirement which science exacts nowadays before accepting any theory, however attractive—the term “speculation” being applied to an hypothesis not capable of confirmation by experiment. The teachings of pure science unfortunately confuse the issue by inventing abstractions which “explain” experimental results by giving the phenomena a name (thereby avoiding the basic question) or by assuming the impossible in some plausible “law.” Newton’s First Law (Article IV) entails three fundamental abstractions:—(1) Straightness of path, (2) unending progression in time, and (3) uniformity of motion in space. In other words, it postulates an “absolute” space-time by an assumption of “straightness” of direction and “uniform” progression in time; all of which Einsteinian relativity denies (Article VI). Other convenient but unwarrantable assumptions which cannot be justified by any known experimental conditions are:—

- (1) *An Isotropic Ether*, or empty space which is identical in every direction (space is traversed in various directions by radiant rays of energy).
- (2) *Frictionless ether* (but radiation exerts a pressure).
- (3) *Gravitation* (which assumes action at a distance).
- (4) *Potential* or hidden energy in space (this being required to balance the kinetic energy of motion).
- (5) *Perpetual motion* of molecules (in frictionless space—*cf.* (2) above).
- (6) *Continuous degradation* of (heat) energy (yet the cosmos persists in not running down).

The above will form the theme of several articles to follow, as all relate to displacements in space (Articles III and VI) which Sir Oliver Lodge suggests should be called etherial dynamics (Article XXV). The subject-matter accordingly relates to radiation—repulsion or “push” forces, which supersede “gravitation” (Articles III, VI, and XIII). The sub-heading “Heat a mode of motion” is borrowed from Tyndall, this being the title of a book published over fifty years ago, and which embodies many classical experiments on radiant energy, to which quantum theorists are applying new interpretations. This brings out the initial difficulty of experimental observations—that of “correct” interpretation. First of all, it is necessary in drawing our conclusions to bear in mind that experimental procedure consists almost invariably in inducing a changing state of affairs by interfering with an existing state of mobile equilibrium; and our studies thus relate to new conditions initiating *metastable* or abnormal states proceeding to other equilibrations of matter and medium (Article III). Theoretical bias and conceptions ingrained by “names” for experimental phenomena make the task of unlearning certain attributes of matter exceedingly difficult, especially the massiveness of matter and the emptiness of space, since these have been impressed upon the scientific mind from its very infancy. The possibility that matter and energy may be two states of motion in an all-pervading space or continuum has already been discussed (*cf.* Articles I and XXII), and experimental evidence in support thereof will be brought forward in this and following articles. It will be found that new explanations of old experiments provide the links uniting matter and energy into motion in space. This is characterised by a “definiteness” in the variations of the “spacings” between atoms consequent upon peculiarities in the form of fluid flow described in Article X.

EXPERIMENTS AND DEDUCTIONS THEREFROM

In explaining observed phenomena the philosopher appeals to “pure reason,” which the metaphysicist designates “intuition”; but the scientist prefers to be guided by “experience” and “experiment.” The success of applied science (engineering and industrial chemistry) lies in the acceptance of principles that “work” in preference to theories that should (but do not) explain their action. The divergence between practice

and theory is so marked that the separation must be fundamental, and due to hypotheses being founded upon erroneous assumptions (*see* above). The first lesson to learn in practical experimentation is that the objects and occurrences we “see” are not always so self-evident as they would appear to be at first sight. For instance, let us study the motion of a particulate matter (electron, atom, molecule, or aggregations thereof) in space. This is obviously simplicity itself until we inquire which is moving, the body or the medium; then we find that their motion must be explained in terms of work. Our conceptions differ according to whether we consider that a particle “vibrating” or “falling” in space, or whether we take it that this fragment of material substance is resisting a flow in space as a consequence of its characteristic inertia (*cf.* Article XIII). In any case relative movement occurs, and the expenditure of energy in producing “motion” is measurable in terms of displacement. An understanding of the different phases of relative motion can be obtained from a boat floating upon water. The boat (*a*) may be pushed (by rowing) along the surface of a still lake against water initially at rest, or (*b*) it may be anchored in a flowing stream, or (*c*) the boat may be rocked while resting upon an originally placid sheet of water. The surface form of the displaced watery medium (whether V-shaped ripples or concentric diminishing waves) indicates the kind of relative motion (translatory or vibratory). However, a third standard of reference or a “stationary” object is needed to decide between relative motions in (*a*) and (*b*) without recourse to prior knowledge. In all cases the amount of displacement depends upon the work done between boat and water (or matter and medium). Always there is work done by a circulation of energy (Article V), and it is only the view-point of calculation that is changed, whether we consider that matter or medium is receiving or expending energy. Even actuality is an equilibrium condition of action and reaction, and relative motion can only be maintained by continuing to do work. Relative rest is a state of affairs in which matter and medium move together, while absolute rest requires that neither be in motion (such as is assumed at the unachievable absolute zero of temperature).

AN ILLUSTRATIVE EXPERIMENT

The following illustrative and interesting experiment is one which anyone can perform. Take an ordinary 50 c.c. burette and fill it to the upper mark with water. Ordinarily small air bubbles will be present (or they can be obtained by shaking). It will not be difficult to find two air bubbles moving upwards at the same rate. If the tap of the burette is opened it will be found that both bubbles are carried downwards with the flowing water, but a bubble nearer the centre falls much quicker than one nearer the periphery, the difference in rate of progression downwards being more marked as one is more nearly central and the other more peripheral respectively. This behaviour is readily understandable, as the velocity of flow is greatest in the centre of the falling column of liquid (Article X). But an *impasse* if arrived at immediately in terms of gravitational theory. First of all we have to presume that the air bubbles, owing to their being lighter or less “dense” than the watery medium, overcome the effects of gravity. The smaller the bubble the more slowly it rises, until molecularly subdivided air remains in solution—i.e., does not rise at all. Bubbles which rise together at the same rate are obviously of approximately the same size. However, in falling “gravitational” attraction would appear to be different as regards these self-same bubbles. Actually the bubbles are still rising, as could be determined by imparting a shape to a moving body, which by its streamlining indicates the direction of “motion.” Solid bodies (*cf.* boat above) also become stream-lined in form by medium adhering thereto—which consideration emphasises the necessity of paying attention to the flowing medium as well as to the matter that moves relatively thereto.

Personalities

MR. G. T. WILLIAMS, chemist and druggist, Cardiff, and Mrs. WILLIAMS celebrated their silver wedding on April 8.

MR. F. COATES has resigned from Wigglesworth, Ltd., manufacturing chemists, Westhoughton, and has purchased the "Wilson Arms" Hotel, Grassington.

MR. D. DAVISON, Ph.C., Cromer, the author of illustrated articles on bell-metal mortars, published in THE CHEMIST AND DRUGGIST some years ago, would be interested in hearing from any chemist who possesses old bell-metal wool weights or knows of specimens in collections.

MRS. MACDONALD and MR. FRASER MACDONALD, widow and son of the late Mr. Peter Macdonald, who represented Wigglesworth, Ltd., in Scotland, ask us to express their sincere thanks to all friends for the kindly messages of sympathy and expressions of goodwill extended to them in their recent bereavement.

CERTIFICATES OF NATURALISATION have been granted to G. Antonoff, research chemist, "Lansdowne," The Avenue, Worcester Park, Surrey; J. Lifschitz (known as Joseph Liff), chemist and druggist, 542 High Road, Leytonstone, Essex; and P. Rosenbloom, medical practitioner, The Infirmary, Milton, Portsmouth.

In the recent examinations held by the University of London, Mr. R. P. Linstead, B.Sc., A.R.C.S., D.I.C., obtained the degree of Doctor of Philosophy (Natural Science). Dr. Linstead, who is the son of Mr. E. F. Linstead, Ph.C. (Burroughs Wellcome & Co.), is engaged in research work in organic chemistry at the Royal College of Science, South Kensington, S.W.

THE following officers were elected for the year 1926-27 at the installation banquet of Galen Lodge, No. 2394, held at the Connaught Rooms, London, W.C.2, on April 12:—W. Bro. H. A. Lumb, W.M.; Bro. W. J. I. Philp, S.W.; Bro. W. H. West, J.W.; Bro. Rev. E. R. Whalley, Chaplain; W. Bro. A. J. Bullen Cooper, P.Z., Treasurer; W. Bro. F. Bascombe, P.A.G.Std.B., P.P.S.G.W. Dorset, Secretary; W. Bro. J. H. Arrow, L.R., D.C.; Bro. T. S. Widdowson, S.D.; W. Bro. H. F. Simnett, J.D.; Bro. S. Tinsley, A.D.C.; Bro. E. A. Proctor, Almoner; Bro. J. Harcombe Cuff, Organist; Bro. A. J. Cundell, I.G.; Bro. A. S. Hull, Bro. A. C. Attwood, Bro. E. C. Sprott, Stewards; Bro. H. Passenger, Tyler.

MR. E. A. WEBB, Ph.C. (formerly deputy-chairman of Evans Sons Lescher & Webb, Ltd.), who has been the moving spirit in the restoration of the church of St. Bartholomew the Great, West Smithfield, E.C.1, is to be presented with a testimonial. The Rev. W. F. G. Sandwith, the Rector of St. Bartholomew the Great, writes to "The Times," pointing out that Mr. Webb has been honorary secretary of the Restoration Committee since the work was started more than forty years ago, and churchwarden for an even longer time. "Every organisation in the parish (he says) has gladly given to this well-deserved testimonial to one who has spared neither time, trouble, thought nor money in the service of the church and people. It is felt by the church council that there must be many beyond our immediate circle who will be pleased to have a share in this offering of gratitude for his long and devoted service." Cheques and postal orders should be made payable to Mr. F. W. T. Hall, St. Bartholomew the Great, West Smithfield, E.C.1.

SIR WILLIAM GLYN-JONES, who arrived from Canada on April 6, and whose resignation of his position as registrar and secretary of the Pharmaceutical Society of Great Britain was accepted on April 7, returns with Lady Glyn-Jones to Canada by the "Montcahn" on April 23. Owing to the necessarily compressed wording of a cable announcing his intention of resigning the statutory office, it was incorrectly assumed that Sir William was also vacating his position as secretary of the Proprietary Articles Trade Association and the Drug and Fine Chemical Manufacturers' Association. The last-named Association has already arranged to retain Sir William's services, and the question to be considered by the executive of

the P.A.T.A. is the method to be adopted for the purpose of making the Association part of a world-wide system of preventing price-cutting. It is this international aspect which appeals especially to Sir William Glyn-Jones in his Canadian and American activities. The work necessitated through the founding of the Canadian Association is heavy, but when the Association is running normally, it is expected that Sir William will find opportunities for re-visiting England. It is not intended to give up his home at Sutton, Surrey. The many chemists in this country who are personally acquainted with Sir William Glyn-Jones will be glad to know that he is now in excellent health, the voyages and changes of climate having benefited him considerably.

Wills

MR. HENRY ALEXANDER, chemist and druggist, 8 Market Place, Hertford, who died on January 16, left estate of the gross value of £2,106 0s. 11d., with net personalty £2,049 11s. 4d.

MR. JAMES BARBER, 24 Sunny Gardens, Hendon, London, N.W., formerly Assistant Registrar of Joint Stock Companies, and chairman of Jeyes' Sanitary Compounds, Ltd., who died on February 12, left estate of the gross value of £19,599 17s. 4d., with net personalty £19,342 13s.

MR. JOHN BAKER, F.C.A., Kingowie, Maidenhead, formerly director of T. F. Bretow & Co., Ltd., who died on December 4, left £39,236 1s. 10d., with net personalty £37,385 8s. The will is proved by Mrs. Baker, the widow, John Jeffery Baker, son, and Sydney Herbert Baker, brother. He gives £200 to his wife, £200 to his brother, 50 shares in Elfrida Syndicate, Ltd., to each of his sons, and the residue in trust for his wife during widowhood, and then between his children.

MR. ARTHUR JOHN SMITH, chemist and druggist, 4 Wellington Terrace, Taunton, who died on April 22, left estate of the gross value of £5,501 16s. 9d., of which £1,868 4s. 6d. is net personalty. Probate has been granted to Arthur Theobald Smith, William Alexander Smith, Sidney Smith, and his widow, Mrs. Elizabeth Smith. The testator left his household effects to his wife for life with remainder to his daughter Mary Goodhind Smith during spinsterhood, the goodwill of Goodhind & Co. to his son Sidney, and the residue of the property to his wife for life, and then for his children in equal shares.

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (1s. each including postage) of any British patent can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Insecticide.—A liquid composition of paraffin oil, naphthalene and carbon tetrachloride, for destroying insects, moths, flies, etc. (W. H. Salt and E. L. Salt. 249,026.)

Arsenical Insecticides.—Solutions for use as insecticides are prepared by passing the vapours of volatile solvents, e.g., carbon disulphide, over metallic arsenic heated to redness, and condensing the vapours. The resulting solution can be emulsified and a protective colloid added. (Badische Anilin & Soda Fabrik. 248,975.)

Organic Mercury Compounds.—A solution of a mercury salt is allowed to flow into a heated alkaline solution of a halogen, nitro, or halogen-nitrophenol, e.g., a solution of mercuric sulphate is added to a solution containing *o*-nitrophenol and sodium carbonate, yielding *o*-nitrophenol mercury. (Farbenfabriken vormals Friedr. Bayer & Co. 242,669.)

Dehydration of Fatty Acids.—A process and an apparatus for the continuous dehydration of aqueous solutions of volatile fatty acids, consisting in distilling the solution in the presence of a liquid capable of forming with water a binary mixture, repeating the process with another liquid with a lower boiling point. (Société Anonyme des Distilleries des Deux-Sèvres. 226,822.)

Births

Notices for insertion in this column must be properly authenticated.

EVANS.—At 6 Milsom Street, Bath, on April 10, the wife of David A. Evans, chemist and druggist, of a son.

GORDON.—At Sennocke, Lake Road East, Cardiff, on April 6, the wife of A. S. Gordon, chemist and druggist, Salisbury Square, of a son.

RADERMACHEE.—At Savannah, Georgia, on April 7, the wife of Donald A. Radermacher, of a son. [A grandson of Mr. W. C. Radermacher, of Paines & Reid, produce brokers, 32 Fenchurch Street, London, E.C.3.]

Marriages

DAWSON—WOFFINDIN.—At St. John's Church, Dews-bury, on April 5, Alfred Dawson, chemist and druggist, Luton, to Mabel Annie Woffindin.

PARKER-POPE—TOWERS.—At St. John's Church, Chatham, on April 5, Edgar Parker-Pope, Civil Service, only son of Mr. A. G. Pope, Folkestone, to Margaret Isabelle Towers, only daughter of Mr. W. L. Towers, M.P.S., "Oaklands," 63 Maidstone Road, Chatham.

Deaths

BANHAM.—At Sheffield, on March 30, Mr. Greaves Edward Banham, chemist and druggist, aged thirty-eight.

BOUCH.—At 45 Northcote Avenue, Ealing, London, W., on April 13, Mr. Thomas Bouch, for sixty years a representative of Gale & Co., Ltd., wholesale druggists, 15 Bouverie Street, E.C.4. Mr. Bouch served three generations of the firm of Gale, by whom his long services were much appreciated. He was highly esteemed by his customers in the Eastern Counties, where till his retirement, eighteen months ago, he knew every member of the medical profession. Mr. Bouch is survived by a widow.

BYASS-JONES.—At 40 Coldershaw Road, Ealing, London, W., on March 20, Mr. Thomas Byass-Jones, retired chemist and druggist, aged sixty-two. Mr. Byass-Jones came to London from Aberystwyth, and was for some years manager to Henry Lamplough, Ltd., chemists, Holborn, E.C. He subsequently married and purchased a business in North London. For some years past he had suffered from heart trouble.

CRAWFORD.—At Langham Nursing Home, 16 Langham Street, London, W.1, on April 6, Mr. David Crawford, Ph.C. (Squire & Sons, Ltd., 413 Oxford Street, W.1), aged forty-one.

IBBOTSON.—At "Kingsmere," Peddars Lane, Blackpool, on April 7, of pneumonia following influenza, Mr. Frank Ibbotson, chemist and druggist, Highfield Road, aged thirty-four. Mr. Ibbotson, who qualified in 1915, was on active service in France during the war, and was wounded. He leaves a widow and a daughter. At the funeral, which took place at Bispham Church on April 10, the Blackpool Branch of the Pharmaceutical Society was represented by Mr. C. H. Turver and Mr. P. Hogley (secretary). Among the floral tributes was one from the staff of Mr. J. F. Blackhurst, chemist and druggist.

JACKLIN.—At Timperley, Atrincham, on March 23, Mr. Alfred Jacklin, chemist and druggist, aged sixty-seven. After carrying on business for a long period at 203 Ashley Road, Hale, Mr. Jacklin disposed of his pharmacy in 1920 to Mr. Gordon Smith, chemist and druggist.

MACCONACHIE.—At 41 Plynllymmon Road, Hastings, on March 30, after a brief illness, Mr. Alexander MacConachie, chemist and druggist, aged forty-one. Mr. MacConachie was a native of Rothes, and was at one time in business at Winchester. He went to Hastings five years ago, and carried on pharmacies at 43 Plynllymmon Road, and 5 St. George's Road.

McNAIR.—At Stirling, on March 23, Mr. Robert Hunter McNair, chemist and druggist, aged sixty-five.

ROPER.—At Minsterley, on April 8, Emma Roper, younger daughter of the late Alderman W. Gowen Cross, Shrewsbury, aged seventy.

SWIFT.—At Huddersfield, on March 27, Sarah Ann, wife of Mr. Ernest R. Swift, chemist and druggist.

TOCHER.—At Brighton, on April 3, Mr. George Tocher, L.R.C.P. Edin., L.R.C.S. Edin., L.R.F.P.S. Glas., dental surgeon, chemist and druggist, aged seventy-nine. Dr. Tocher qualified as a chemist and druggist in 1870, and carried on business for some years at Helensburgh. After taking his medical and dental qualifications, he practised for many years in Brighton, and later in Tooting, London, S.W. He retired from practice about four years ago. Prior to the interment at Hove Cemetery, on April 7, the Rev. R. J. Campbell, D.D., conducted the service at Holy Trinity Church, Brighton, where there was a large attendance of mourners and friends. Dr. Tocher, who was a native of Aberdeenshire, was uncle to Mr. J. F. Tocher, D.Sc., Ph.C., and Mr. G. A. Tocher, secretary of the London Pharmaceutical Committee. He leaves a widow, three sons and a daughter.

WILCOCK.—At Liverpool, recently, Mr. Fred Anderton Wilcock, chemist and druggist, aged fifty-nine. Mr. Wilcock, who had of late been with Prebble's, Ltd., chemists, was at one time in business at Bradford (where he was secretary of the local Association) and at Ilkley. A widow and a son survive him.

WILLIAMS.—At St. Thomas's Hospital, London, S.E.1, on April 7, following an operation, Mr. Alfred Williams, chemist and druggist, Aldershot. Mr. Williams qualified in 1904. He went to Aldershot as manager to the late Mr. Williams (who was not a relative), and took over the business in 1914. He was a member of the Panmure Lodge of Freemasons.

WORTHINGTON.—On board the s.s. Berengaria, during a recent voyage from New York to Southampton, Mr. Henry Edward Worthington, president of the Tiona Refining Co., Clarendon, U.S.A., and a partner in the firm of Worthington & Boler, refiners of petroleum oils and manufacturers of petroleum jellies, Liverpool. The funeral service was held at Christ Church, Higher Bebington, and the interment took place at Bebington Cemetery.

WRIDE.—At 1 Carlton Road, Southampton, on April 13, after a brief illness, Mr. Francis Blake Wride, chemist and druggist (F. B. Wride & Co., wholesale and retail chemists, 1 and 2 Strand, and branches), aged sixty-three. Mr. Wride was the eldest son of the late Mr. F. B. Wride, chemist and druggist, who in 1853 purchased the business at 1 Strand, Southampton, previously carried on by Mr. Coulson. Mr. F. B. Wride, jun., passed the Qualifying examination in 1883, and subsequently joined his father in partnership, becoming head of the firm on his father's death in 1911. In 1920 his son, Mr. F. B. H. Wride, chemist and druggist, who qualified in 1914, took charge of a branch at Winchester. Mr. Wride was well known and esteemed as secretary of the Southampton Pharmacists' Association, and in 1919 his services were recognised by the presentation of a gift of silver plate. At the time of his death he was secretary of the Southampton and District Branch of the Pharmaceutical Society, the Southampton Branch of the Retail Pharmacists' Union, and the Southampton Pharmaceutical Committee.

WHAT is described as the largest factory contracted for in the Birmingham district since the war is to be erected for Cadbury Brothers, Ltd. It is estimated that the work will take nearly two years to complete.

ITALIAN ALMONDS.—During the season September 1, 1924, to July 31, 1925, exports of shelled almonds from Italy amounted to 24,972 tons. Germany took one-third (8,657 tons), while the United States purchased rather more than half those of Germany. Shipments to the United Kingdom amounted to 1,838 tons; other important destinations were the Netherlands (1,808 tons), India (1,290 tons), Switzerland (974 tons), France (955 tons), Czechoslovakia (843 tons), and Sweden (841 tons).

Trade Notes

TELEPHONE CHANGE.—The telephone numbers of G. H. Zeal, Ltd., 75-77 St. John Street, London, E.C.1, have been changed to Clerkenwell 9658, 9659.

SWANDOWN NAMESAKE COMPETITION ended with that of the month of March. All coupons that remain over should be destroyed, as they are no longer valid. [Corrected note.]

RUBBER GOODS.—The London Rubber Co., 183 Aldersgate Street, London, E.C.1, manufacturers of surgical rubber goods, ask us to emphasise the fact that these are British made, and each article is so marked.

DELVOIX CRÈME DE BEAUTÉ is a new introduction by Ayrtton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool. It is taking so well that the company suggest in an advertisement in this number that their customers should not wait until the traveller calls before ordering.

"JAYTEE" OLIVE OIL.—This brand of pure olive oil is a special one of John Thompson (Wholesale Druggists, 1921), Ltd., Liverpool. A showstand is supplied free, and can be had on postcard application by chemists.

GIBBS' NOOMIES, or toilet soap lemons, are the subject of an advertisement in this issue by D. & W. Gibbs, Ltd., Cold Cream Soap Works, London, E.1. Attention is called to a three-piece, cut-out window display in six colours, which is sent with orders for one gross of Noomies.

VISKAP.—Viscose Development Co., Ltd., Bromley, who advertise the well-known self-fixing Viskap bottle-caps, ask us to emphasise the fact that the company originated the self-fixing bottle-cap system, and that their goods are British made. Prompt delivery is guaranteed.

VIO-RAY.—L. G. Hawkins & Co., 30-35 Drury Lane, London, W.C.2, are specialists in violet-ray apparatus, which are now much in request and form part of the equipment of many pharmacies. The apparatus are known under the brand name of Vio-ray, the principal models being shown in the firm's advertisement.

HARLEY'S RODINE.—The March number of "Omni-box," the house-magazine of Robinson & Sons, Ltd., Chesterfield, contains some notes regarding the cartons in which Rodine rat and mouse remover is packed. Mr. Thomas Harley, Perth, informs us that the carton and container have never been altered since Rodine was placed on the market twenty-five years ago.

DENTOZONE.—The Medical and General Specialities Co., 11 St. James' Road, Upper Tooting, London, S.W.17, referring to the note on a South African product in this column in the *C. & D.*, April 3, remind chemists that the registered trade-mark "Dentozone" is in Great Britain and Ireland the property of the company. It would be an infringement of their rights to sell in this country any dental preparation not made by them which bears that name.

"FIRST-AID FOR THE CAR."—Stearns, Ltd., Royal London House, Finsbury Square, London, E.C.2, the proprietors of Sternal motor oil, have issued a new edition of their interesting little book entitled "First-aid for the Car," which is of great interest to all who own or drive motor-cars. Engine oil and ignition system troubles are treated separately, the symptoms being concisely described, with the cause and remedy. We have also received particulars of the Sternal Thousand Guinea Ballot, which has been adopted to further the sale of the new volatilised process Sternal W.W. The competition should bring instructive observations from motorists who take an interest in expert driving.

MEDICAL REGISTER.—The registrar of the General Medical Council has issued an official correction of pages lxxxviii and lxxxix of the current Medical Register, showing that the number of names tabulated during the year 1925 is 51,738, and that registrations during the same period number 2,570. These figures replace those given in the *C. & D.* of March 20 (p. 414).

The Origin of a Soap

IN introducing Golden Glory soap to a sales conference of representatives of A. & F. Pears, Ltd., Mr. Robert Pears gave a concise account of the beginnings of the new product, and made an interesting reference to difficulties met with in manufacturing soap on a large scale. The following passage is taken from the current issue of "Bubbles," the company's house-organ:—

"It [Pears' Transparent Soap] was not made transparent for the sake of its appearance—it was made pure, transparency followed. This discovery—that refining toilet soap was possible—was for years appreciated by but few, but has since proved to be epoch-making in the history of soap manufacture, for it set up a standard of purity never since surpassed or even equalled. Since that date, 1789, two advances have been made in the art of soapmaking. Milling has been introduced, which, as you know, presents a tablet of even texture and of nice appearance without changing the nature of the soap, and again, various vegetable oils have been used to improve the lathering qualities of the soap, and to give a more soothing action on the skin.

"I would have you note that both these developments fall short of the Pears' standard, because in neither instance is the refining process used. Of the two, the latter interested us the more because we realised that the employment of these vegetable oils does improve the qualities of a toilet soap, and we who, in our phrase 'Matchless for the Complexion,' first stressed the connection between soap and beauty of skin, could not rest content when competing houses were claiming advances for their products to which we could not lay equal claim. Nor could we be satisfied with any soap which did not come up to that standard of purity which we ourselves had set. No ordinary milled opaque soap containing vegetable oils would be good enough for Pears'. What we demanded was a refined transparent free-lathering soap; in other words, one which embraced the best features of every make of soap on the market. For this we have been content to wait, realising that only a soap of this nature could be an improvement on our old-established Unscented Transparent. We have had to wait some seven years, for ever since the war we have been trying to produce this improved Pears' Soap. It was not until April of last year that our efforts were crowned by success.

"It is hard for any other than a Pears' soapmaker to realise the difficulties with which we have had to contend. You, gentlemen, who have paid cursory visits to our works probably have the impression that the making of Pears' Soap is much like the making of any other toilet soap, in that we work with definite materials through a definite process in a definite time—in other words, that process is mere repetition. So it appears on the surface, but if I tell you that as common an occurrence as a falling barometer will spoil a day's making unless due allowances are made, and that a slight error in the selection of a raw material once cost the firm some thousands of pounds, you will realise that there is more in the art of the Pears' soapmaker than meets the eye. I am making this point as you must appreciate that it is our century-old experience which enables us to be the only firm among soap manufacturers who can make a satisfactory transparent soap, and further, that even with this experience behind us, several years of patient research have been necessary to enable us to perfect our latest product."

Information Department

INFORMATION WANTED

P/64. Bees (ginger beer plant) ready for working	L/84. Progelin
D/74. Haemozoin	M/84. Radiumised salt of lead tablets
E/134. Loven cod-liver oil (London supply)	B/94. "Red Seal" benzo-clenz
M/84. Menephine	B/124. Sels de Plomb
	H/124. X.V. brand photo-graphic paper

I am obliged by your reply to my query. One turns to the *C. & D.* in a difficulty as to a proved helper and friend.—D.W.N./71.

Observations and Reflections

By Xrayser III

Pharmacists

will applaud the action of the Pharmaceutical Society's Council in deciding to oppose the introduction of the threatened Order in Council and Regulations, intended to restrict in an unreasonable manner the sale of drugs derived from barbituric acid. It was high time that some protest should be made against powers being taken to authorise the infliction of savage penalties altogether out of proportion to the seriousness of the offences which it was proposed to create. If ever there was a case of legislation creating crime, the putting in force of the needlessly drastic regulations in question would have constituted one; and the Council has done well to appeal to the Lord President of the Privy Council, who may be depended upon to give the Society's case all the consideration it deserves.

Financially

the position of the Society continues to be near high-water mark, and once more the accumulated fund has been swollen by the addition of a large surplus. Examination and registration fees again account for most of the excess profit, though there is also a considerable increment from subscriptions, and a nice little profit from the Codex. These items alone account for about eight-ninths of the balance shown by the financial statement. For the rest, savings in certain directions are approximately balanced by extra expenditure in others. Members of the Society may not unreasonably begin to ask shortly why the annual subscription should not be reduced, now that the finances of the Society are in such a flourishing condition.

Pedigree Rats

are suggested as a further means of increasing the Pharmaceutical Society's resources, and the suggestion is to be acted upon without delay. According to the official report of the latest meeting of the Advisory Committee on the Pharmacological Laboratory, three or four months must elapse before a stock of rats can be ready for the vitamin tests which it is proposed to conduct in the laboratory. This means, presumably, that such period is to be devoted to rat-breeding until there is a sufficient supply for experimental purposes. After that a surplus should accumulate, and we may expect to find the revenue of the laboratory department appreciably enhanced by the sale of what may come to be known as B.P.C. rats!

Miss Buchanan

will be missed from the Council, in the work of which she has always taken a very active interest. There are other members who could probably be better spared, and I am particularly sorry that Miss Buchanan has found it necessary to resign before at least one other woman-pharmacist could have been elected on the Council. It must at times be awkward to be the only woman upon the executive of a representative body, because there is no one to hold the fort while she is unavoidably absent, and the woman's point of view may thus be missed on occasion. Let us hope that another woman will be co-opted to fill the vacant place, and that still another will stand for election and be successful next year. Meanwhile I should like to add my expression of regret that the cause of Miss Buchanan's resignation should be what it unfortunately is.

A Good Start

is apparently being made by the Canadian Proprietary Articles Trade Association, which is especially fortunate in having secured the services of Sir William Glyn-Jones, who is also lucky in having discovered more worlds to conquer in his own inimitable way. His is not one of the spirits which can settle down quietly to enjoy the rewards of past work, and I shall look forward to visible results from his efforts across the Atlantic, at no far distant date.

The Theriaca Andromachi,

about which one of your correspondents has been inquiring, is one of the most interesting of pharmaceutical preparations. Wootton in his "Chronicles of Pharmacy" has given much space to its consideration, but even he did not exhaust its curious history. You refer to its being expunged from the London Pharmacopœia. This action was undertaken at the instance of a physician whose name was until quite recently familiar to the dispensing chemist, namely, Dr. William Heberden. He it was who proposed that the Theriaca should be discarded, and he managed to achieve his aim by 14 votes against 13, and accordingly it did not find a place in the edition of 1788. Heberden was born in London in 1710 and became a Fellow of St. John's College, Cambridge, in 1730, having been a student of that college from the early age of fourteen. For several years he lectured in his university on *materia medica*. One of the fruits of his interest in drugs was his scepticism of the value of the age-long reputation of the famous Theriaca, which he gave expression to in his "Essay on Mithridatium and Theriaca." He showed that probably the only poisons the ancients were acquainted with were hemlock, aconite and those of venomous beasts, and that they did not know of any real antidotes. There was much said by him about the varying composition of these preparations, which seemed to change from century to century. Dr. Heberden's learning and good sense are well shown in this little essay by his views as to the improbability of the tales which are told of the subtle poisons that might be concealed in a ring or conveyed to the proposed victim in perfumed gloves and letters; these he characterised as the idle inventions of the ignorant and superstitious. It is to me remarkable that there still persists among educated people an idea that the ancients did possess some knowledge of very powerful poisons which has not descended to us.

Venice Treacle

was, perhaps, the better known name for the Theriaca Andromachi, and James Alleyne says that it was so called because great quantities were made in that city for dispatch to most parts of the world. "Many," he says in his Dispensatory, "have a prejudice that this medicine made in England is not so good as what comes from Venice." He discusses the reasons which are given for the superiority of the Venetian drug and shows that they can be refuted; and, in any case, it is certain that England has a reputation for some drugs higher than those which come from abroad. This foolish opinion about the foreign Theriaca, he affirms, leads to people being defrauded, because they "please themselves much with buying a Tin pot at a low price of a dirty Sailor, who pretends to have imported it, wrapt up with printed directions in the Italian tongue; whereas some of our Druggists and unworthy dealers in Pharmacy, make this wretched stuff of little else than the sweepings of their shops, have the very bills printed in London and put it off in this disguise upon such simple people. In reality no country can make this cheaper than ourselves, and not easily so cheap, because many of the ingredients are furnished us from both the Indies. And no one here, buying everything to the best advantage, can make it for so little as 3s. per lb. out of pocket. . . . They who have any suspicion that this is an injustice upon these Venice Treacle merchants may be satisfied at almost any Printers, who print and keep by them such Italian directions; unless they can persuade themselves that an Apothecary at Venice is forced to send to London to have his bills printed." I think that little picture of "Venice Treacle" is almost as illuminating as some of the portrayals of the eighteenth century in London by Hogarth.

BRITISH BONESSETTING ASSOCIATION.—Meeting in conference at Scarborough on April 5, bonesetters (of whom it is estimated that there are 200 in this country) decided to establish the British Bonesetting Association. Mr. J. Blackburn, Doncaster, was elected President of the Association, which is quite distinct from the British Osteopathic Association. Before a bonesetter can become a member of the Bonesetting Association he must have been in practice for five years, and must devote the whole of his time to the work.

Rx

Ostelin 3i X

Syr. Calcis lactophos. 3i

Elixir Simplex 3i

Aq. ad 3viii

M. Sg. Two tablespoonfuls to be taken 3 times a day, after meals.

"Shake the bottle"

X Doctors are being advised that OSTELIN can, with advantage, be prescribed in combination with such compounds as calcium lactate and lactophosphate, because of the remarkable way in which it promotes calcium and phosphorus metabolism.

When dispensed with other drugs, Ostelin is best suspended with tragacanth, which contains no oxidising enzymes. It is incompatible with acids of an oxidising nature, or other oxidising agents, but can be presented in any other combination.

When much Ostelin is being dispensed, application for terms for bulk supplies should be addressed to:

Ostelin, Glaxo House, 56 Osaburgh St., London, N.W.1

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Editorial Articles

Complaints Against Chemists

THERE seems quite a crop of complaints, more or less justified, by the public regarding their dealings with chemists, which are useful in so far as they reveal the supposed failings of chemists or the unreasonableness of the public demands upon their service. The first one we refer to is the correspondence in the "Southampton Echo" regarding chemists' varying charges, which was mentioned in the *C. & D.*, April 3, p. 494, and about which we have received further particulars. A melancholy interest attaches to these, as the notes and prescriptions were sent to us by Mr. F. B. Wride, whose death we regret to announce took place this week.

The complaint is not a very satisfactory one DISPENSING without a little examination. The charges PRICES said to have been made are: (1) 3s. 6d., by a Southampton chemist; (2) 1s. 3d.; (3) 1s. 11d., both in the West; (4) 2s. 9d., by another Southampton chemist; and (5) in the same town, 1s. 6d.; and (6) 2s. 4d., another chemist. Mr. Wride, in his letter to the "Echo," made the prices 3s. 2d. and 1s. 11d., making 5s. 1d. or if dispensed in a corked bottle 4s. 10d., in waxed paper 4s. 7d. So that all the prices differed, giving the impression that prescription pricing is guess-work. The prescription we now give priced on the *C. & D.* system:—

	d.
Urotropin, gr. v.	18.0
Fee (for powders)	15.0
Mitte xx.	33.0d. = 2s. 9d.
Ac. sodii phosph., 3ij.	7.0
Container	5.0
Fee	6.0
	18.0d. = 1s. 6d.

making a correct charge of 4s. 3d. for the whole prescription. There is nothing to be said against tablets being dispensed, and if this were done, the price would be 3s. 6d., the first charge of the Southampton chemist.

The explanations in the *C. & D.* Retail and Dispensing Price List are so explicit that no pricing can vary more than a penny or twopence even on complicated prescriptions. A list to be an effective basis for charging prescriptions must be as complete a list of medicaments as possible, and the *C. & D.* List is the only one that answers this test. So soon as any drug or chemical comes into use, it is entered in the list and the price carried out on a scientific costing basis. Obviously, the only way to eliminate these charges by the public of being duped is to employ this method of pricing. Casual opinion of anyone can never replace a methodical and scientific price list. The next complaint is by a clergyman, who, writing to the "*Lancet*," states that "A

PERSONAL scales in different chemists' shops in
WEIGHING Brighton, and during the same half hour.
MACHINES In no two cases was the weight recorded the same. Another was weighed on two scales in different branches of the same cash chemists, whose watchword is, like all other chemists', prescriptive accuracy; the results were again different. To-day, within a quarter of an hour, I have been weighed on the scales of five chemists' shops in Chatham; in every case the recorded weight is different. I enclose the weight certificates which were given to me and which show the variations. During the past two years I have had occasion to be weighed in many towns in the south of England, and everywhere I have found the same inaccuracy. Is it because the chemists themselves receive no payment for the operation—as this is usually given to the local hospital—that the scales are allowed to be everywhere so scandalously out of order? Why do the inspectors of weights and measures omit to test them, especially as the results recorded mean so much to the health and spirits of the patients?" The "*Lancet*" gives the following additional information: "The five weight certificates, which all bear the same date, read 13 st. 3 lb., 13 st. 3 lb. 12 oz., 13 st. 4 lb., 13 st. 4 lb. 8 oz., and 13 st. 5 lb., the maximum variation being 1.08 per cent. of the total weight." Comment is perhaps unnecessary, as the cause of the variation cannot be stated without an investigation of each weighing machine. There is no "scandal of the scales," as the "*Lancet*" infers, but the incident is useful as indicating that a personal weighing machine may with use get out of order. The third complaint is of a type which is not unfamiliar; it was contained

in a letter to the "*Times*." Mr. E. F. Cowell wrote: "I should be glad to know whether there is any official provision for the supply of drugs, etc., in an emergency on Sundays and holidays in the various districts of London. On Good Friday a lady lying ill in Notting Hill had to be removed at short notice to a nursing home. The doctor ordered her, before starting in the ambulance, a dose of a certain medicine, and her hostess's son took the prescription and tried to procure it. He went to all the chemists' shops he could find in the neighbourhood. All were closed with the notice, 'Open 6 to 8 p.m.,' and when he rang at back doors he was told that no one in the house till 6 p.m. was qualified to make it up. The son asked each policeman he met if he knew a chemist's that would be open, but none could tell him. He returned home and the prescription was then sent, to save further waste of time, to a well-known chemist in

Wigmore Street, which one knew was open day and night. A delay of nearly two hours was thus caused, which in a more urgent case might have been a very serious matter. In France and other countries I have been in, the local papers announce the day before a holiday which pharmacies will be 'on guard,' and if there is not a similar arrangement in London, would it not be advisable one should be made?" A few days after Mr. Harold E. Matthews, Ph.C., of Clifton, wrote to the "*Times*" the following reply: "Your correspondent, Mr. E. F. Cowell, is asking for something which is not economic. I speak as a practising chemist who formerly gave continuous night-and-day service at a pharmacy. No one is prepared to pay a chemist for 'standing by' hour after hour to meet the occasional emergency. Denied the privileges that attach to his calling in most other countries, I submit that the British chemist is under no obligation to the public to provide unpaid service." It would, of course, be an ideal to have a chemist and doctor in the house when a medical emergency takes place, but this is a counsel of perfection. The doctor could have told the patient's friends where drugs can be obtained in an emergency or he would doubtless have supplied the drug if he had realised that most of the pharmacies were closed at the time.

The Position of Sulphur

THERE has been a substantial improvement in fundamental conditions in the sulphur industry compared with a year or so ago, and the strength of the market under the control of the Italo-American Combine has become more particularly marked in recent months. The main reason for this has been the rapid increase in the world's consumption, whereby, in spite of the steady recovery in the American and Sicilian production in the past year in order to meet current enlarged needs, the American producers' surplus stocks experienced on the year a decrease of about 350,000 tons. The combine has now been in existence over three years, and since its inception we have on several occasions commented on the advantages derived therefrom. The first effect of this resulted in the Sicilian industry being rescued from a virtually hopeless condition under the rapid expansion of the American output after the war period to well over two million long tons in 1923. The world's markets were invaded for some few years before then by American sulphur, the exports of which, however, were checked already in 1923 as a result of the working agreement, whereas the Sicilian exports in that year showed a sharp recovery towards normal. Commenting on the situation on June 7, 1924 (*C. & D.*, pp. 801-2), in the light of the American output of over two million tons for 1923, we stated, in regard to the latter:—

It is undoubtedly being checked under the existence of the working combination, which seems the more desirable in view of the huge American stocks, which would represent but little less than two years' domestic and export requirements combined. The American production alone being far in excess of the total world's requirements, it can only be surmised that the most important problem facing the Italo-American Combine is how to restrict that production and thus to check the rapid accumulation of American stocks, although the world's consumption has been at a distinctly progressive rate, and should continue so, provided prices are kept at a level calculated to stimulate the outlet.

Prospective events were thus accurately foreshadowed in our remarks, and ample confirmation of this was afforded by the returns issued since. We give below

official figures so far as we have been able to obtain, covering the last four years, which are very striking :—

				American domestic deliveries	American exports
				Tons	Tons
1922	..	..	..	855,655	487,969
1923	..	..	..	1,144,366	474,475
1924	..	..	..	1,051,544	482,114
1925	..	..	..	1,228,569	629,401

				Production		Sicilian exports	American total deliveries
				Sicily	America		
				Tons	Tons	Tons	Tons
1922	..	..	..	137,640	1,830,942	133,264	1,343,624
1923	..	..	..	206,238	2,036,097	217,172	1,618,841
1924	..	..	..	223,577	1,220,561	312,079	1,533,658
1925	..	..	..	—	1,409,240	—	1,857,970

The trade expansion in the past year has been very extensive, as demonstrated by these two sets of figures. There has been, indeed, an increase in American consumption of over 177,000 tons, simultaneously with an enlargement of the American exports of 147,287 tons; this, therefore, making an excess over 1924 in total outgoings, so far as America is concerned, of over 324,000 tons, although, as far as can be gathered, the Sicilian exports, which experienced a sharp increase from 133,264 tons for 1922 to 312,079 tons for 1924, were checked during last year, on account of having in that year overlapped the agreed quota fixed under the agreement. The most significant factor, having regard to the position of the Combine, is that the total American outgoings for 1925 at 1,857,970 tons overran the domestic output to the extent of about 450,000 tons; furthermore, the Sicilian exports for 1924 at 312,079 tons were a long way in excess of the output as indicated. These very satisfactory developments have been reflected in the considerably reduced returns of stocks in producers' hands, as shown below :—

				Surplus stocks		Total in both countries
				Italy	U.S.A.	
				Tons.	Tons	Tons
1922, Dec. 31	..	..	..	274,830	2,500,000	2,774,830
1923, Dec. 31	..	..	..	245,201	2,927,000	3,172,201
1924, Dec. 31	..	..	..	175,700	2,700,000	2,875,700
1925, Dec. 31	..	..	..	—	2,250,000	—

It will be seen that the American surplus, which amounted to 2,927,000 tons at the end of 1923, or before the combine was formed, has been whittled down in two years to the extent of 677,000 tons. It may be inferred that, in view of the very large increase in the American exports for last year, and assuming that the outlet will develop further, the Sicilian output and exports will reveal another expansion, while the surplus held by Sicilian producers, which at the end of 1924 amounted to only 175,700 tons, has presumably been since reduced to small proportion, even allowing for another increase in the output. Out of the total American exports for last year, the largest importers were Germany, with a total of 136,972 tons, Canada 125,681 tons, France 110,684 tons, and Australia 71,530 tons, this making an aggregate of about 445,000 tons, or, roughly, three-fourths of the whole of the American export trade. Under the regulation of prices under the combine, more or less in accordance with economic conditions in the various chief consuming countries, the outlet was undoubtedly greatly facilitated. The market was in a depressed state when the combine came into existence with the price of American and Sicilian raw sulphur,

or brimstone, at around £5 5s. per ton delivered, and that of Sicilian flowers and roll at £8 5s., comparing with about £6 for American raw and £12 10s. to £13 for Sicilian refined early in 1922. In 1924 prices, for refined especially, fluctuated a good deal, with Sicilian flowers varying between about £7 10s. and over £9, and roll up to £7 15s., but market conditions last year firmed up distinctly. A year ago American raw material was quoted £5 10s. delivered Manchester, and Sicilian flowers at £9 10s. and roll £7 15s. delivered London ex wharf, but more recent quotations given in the same order were at £5 17s. 6d., £10 2s. 6d., and £9 2s. 6d. There has thus been a notable advance compared with a year ago; and the position being on a much healthier footing, the tendency has been upward throughout the last twelve months, thus confirming the view expressed in our issue of April 18 last year (pp. 579-80). The widening of the outlet, especially due to the steady increase in the use of fertilisers and the consequently enlarged production of sulphuric acid, apart from various new uses, has therefore enabled the industry to be restored to a more remunerative basis than within the last few years. Apart from America and Sicily, a good deal of sulphur is also being produced in other parts of the world, especially Japan, so that the combine is not altogether free from competition. An interesting account appeared in "The Times" last week, relating to great deposits of sulphur, which run up to 95 per cent. pure, at White Island, New Zealand, where the working of same was suddenly interrupted in 1914 on account of a volcano disaster, but operations have been resumed after exhaustive investigations in order to guard against the recurrence of disaster. The ore extracted from the crater floor and walls is said to contain 44 per cent. of sulphur.

Quinine Manufacture in Madras

As malaria has spread rapidly throughout the Presidency of Madras, the demand for quinine has grown considerably, and the Madras Cinchona Department is at present unable to grow all the bark needed. Supplies from the planters do not meet the deficiency, so that the Government of India plantations have to be indented upon. For many years an extension of the existing Government plantations has been talked about, either on the Nilgiris or elsewhere, so as to make Madras independent of outside supplies. It has now been decided that it only pays to grow Ledgeriana, and as this variety requires an elevation of 2,000 to 2,500 feet, a rich soil, and a heavy rainfall, the Anamallais has been chosen as the best district for the cultivation, and a start has been made in the valley of Kallar. It is proposed to open 230 acres a year. This, as anyone with experience of tea-planting knows, is no mean task, and the Department was very wise in only attempting a fifty-acre clearing at first. Though it has been decided to plant only Ledgeriana in future, this may not be accepted as necessarily the best possible variety for South India. High yielding strains of *Cinchona robusta* have been isolated, and the "Madras Mail" suggests that attempts should be made to evolve a strain of cinchona which will suit the conditions of soil and climate and at the same time give as high a yield as Ledgeriana. But this can only be done by a botanist. There is also a unique opportunity, when opening these large areas in the Anamallais, of giving a demonstration of how to avoid loss by soil erosion by means of terraces and cover crops. The attention of planters has been called to this point on many occasions, and Howard even suggested the enforcement of a regulation to terrace all lands from which forest canopy has been removed as one of the terms of the lease. Improvements have been made of recent years, but it would be very valuable to have an example to follow, and it should be possible to test the merits of various cover plants on a large scale. There is nowadays a greater demand for febrifuge, which has been standardised under the name of "Malarene" (See *C. & D.*, June 6, 1925, p. 822), than for quinine sulphate, and this accounts to a great extent for the satisfactory profit of over Rs. 34 lakhs, which the Cinchona Department has made during the past year.

Optical Convention

SINCE the last Optical Convention in 1912 many notable advances have been made in optical science in Great Britain; in fact, progress in every direction has been more rapid than at any other period in the history of British optics, and the object of the Convention, which is being held from April 12 to 17, inclusive, at the Imperial College of Science and Technology, London, S.W.7, is to discuss these contributions. The Convention was formally opened by the Prime Minister, who emphasised the extent to which the optical industry entered into the various phases of national life. In his presidential address, Sir Frank Dyson, the Astronomer Royal, said that while it could not be asserted that Britain held the pre-eminent position that it did in the early days of the science, the optical industry could look back with pride on its achievements and progress during the past twelve years. In 1912 Germany was supplying 60 per cent. of the optical glass used in this country, against 30 per cent. made in France and 10 per cent. of our own manufacture. As a result of the war, by 1918 the home demand for optical glass for all purposes, which included many new types of lenses and optical instruments requiring glasses of special optical properties, was being met by supplies of which 95 per cent. was manufactured in this country. From France came the remaining 5 per cent. At that time we were making nine tons of optical glass per month. Since the war, owing to the decreased demand, the production had, of course, been much less, but the requirements of British opticians were being met in variety of type and excellent quality. After referring to camera lenses of large aperture and the developments in the production of the telephoto lens, Sir Frank stated that prismatic binoculars now made by British firms could hold their own with any in the world.

PAPERS AND ENTERTAINMENTS

The programme of the Convention includes the reading of a large number of papers on subjects of an optical character, including ophthalmology, astronomy, microscopy, photography and cinematography, and many of these are of considerable interest to chemists. Among the papers read at the morning session on April 13 was one on *Historical Instruments Exhibited at the Optical Convention, 1926*, by Mr. R. S. Clay, B.A., D.Sc., who said that among the early navigating instruments they had an astrolabe supposed to have belonged to the Spanish Armada. It was found in 1845 on the north side of Combe Hill in the island of Valencia, co. Kerry, within view of the place where three vessels of the Armada were wrecked. The instrument was made heavy at the bottom so that it would remain steady in the wind. It was held up by the ring and the swinging arm was rotated until the sun's image formed through the pinhole in one sight fell on the other sight. Thus the sun's meridian altitude on that day could be determined, and from that, knowing its declination, the latitude was determined. Among the quadrants was one by Senior, dated 1600; one by Sutton, dated 1660; and one by Bird on a pillar stand, said to have been used by Captain Cook. Dr. Clay drew attention to a microscope and some telescopes made by Christopher Cocks, a very early English maker. The microscope was of peculiar interest as being Dr. Hooke's own working microscope, and one of the instruments that was obtained by Dr. Demainbray for George III. It was in a fine state of preservation. Another set of instruments to which reference was made is the group of Marshall's great double microscopes. Of the nine known examples no less than five are on view. Among the historical telescopes was the Gregorian telescope made by the celebrated optician, Benjamin Martin, at the Globe of Visual Glasses in Fleet, London, about 1760. It was made for Thomas Hancock, of Boston, Mass., for presentation to Harvard University. The telescope was lent to Professor Winthrop for use in the expedition to Newfoundland in 1761, to observe the transit of Venus over the sun's disc.

Messrs. W. H. S. Chance, M.A., and W. M. Hampton, B.Sc., dealt with *Some Recent Developments in the Art of Production of Glass for Optical Purposes*. The paper showed that Chance Bros. & Co., Ltd., Smethwick, Birmingham, were listing in 1914 approximately twenty-six types of optical glass; in 1918 they produced an out-

put equal to four or five times the estimated pre-war world demand, and at present they were listing 112 varieties. With regard to the production of new types with optical properties essentially different from those at present available, the authors considered that such was not probable in the present state of knowledge, but they believed that further improvement could be effected in transmissibility both in the visible and ultra-violet portions of the spectrum, and they were now, with the help of the British Scientific Instrument Research Association, engaged in a programme of research with that end in view. Reference was made to the fact that the "distant" signals of British railways were being fitted with a special orange-yellow glass developed by the firm. This glass enabled the drivers to distinguish "home" from "distant" signals, and thus conduced to further safety in railway travel. A new window glass which transmitted ultra-violet rays in sunlight was also being manufactured and supplied to hospitals and private houses under the name of Vitaglass. Mr. Chance, who presented the paper, further mentioned that the company had recently received an inquiry from Germany for optical glass, and that this was the first of the kind for forty or fifty years.

Lord Rayleigh submitted *Notes on Silica Glass*, in which he showed that the reason silica glass made from sand was only translucent, while that made from rock crystal was transparent, depended on the fact that sand grains when heated develop gas bubbles internally. This behaviour was traced to the geological conditions attending the formation of the material.

Mr. W. Swaine, in *A Statistical Study of Refractive Errors*, gave a preliminary survey of records of optically defective eyes gleaned from sources indicated as R 42 (Devonport), R 52 (Paignton), R 63 (London), B (New York), S (unknown, manufacturer), and covering over 4,000 cases. From histograms it is shown that in regard to age and sex distributions of persons seeking optical advice the distributions are more or less bimodal, the positions and relative values of the modes varying considerably in the different localities and between the sexes. There can be no doubt that the mode at about fifty years of age is due to the presbyopic class of patient, and it appears that women tend to require optical aids for reading or close work before men, especially in the working districts. The presbyopic mode is generally within the 50-54 years age group. Of greater interest, however, is the distribution around the 20-24 years age group, which will be free of presbyopic factors. The mode for this group is always more pronounced for females, and in the case of R 63 females exceed the presbyopic modal frequency. A contributory factor may arise from the fact that the female material of R 63 consists of typists and factory workers in the city. In regard to visual acuity before and after correction, as is to be expected, the final distribution after correction shows a high percentage with normal and super-normal acuity. Males between 10 and 20 in each district come with a relatively poorer vision, while over the whole range 10-39 years 80 per cent. of the females have acuity better than 6/18, as compared with only 60 per cent. of the males. In the classification of ametropia, comparative frequency, the experience of most observers is a 4 to 1 ratio of hyperopia to myopia. Hyperopia appears to be less frequent between 15 and 19 years, increasing steadily to 70 years with the exception of some disturbing factor between 45 and 60. Presbyopia adequately explains the irregularity; the hypermetropic presbyopes requiring aids to reading combine with the myopic presbyopes to cause the rapid rise of hyperopic cases just after 42 years as well as the rise in myopia after 50 years. The Paignton district shows less myopia with both males and females (10-39) than the London case under review. With regard to the relation of the astigmatisms to their corresponding ametropias, there is a slightly greater tendency for astigmatism to be more often associated with myopia in the younger age group, a reversal of the experience of other investigators. These ratios are sensibly reduced in the presbyopic group. It is known that direct astigmatism ("with the rule") is more common in youth, while the inverse variety is more common after middle age. This has been confirmed in the present series, the actual variation with age being here considered.

The limits of axis direction in the case of direct and inverse are $\pm 15^\circ$. Thus direct and inverse astigmatisms have equal chances of representation, while the oblique directions have a fourfold chance over 120° . Despite its fourfold chance, oblique astigmatism covers only 25 per cent. and is fairly constant over all ages. The constancy of the oblique ratios proves that the variation does not arise from a rotation of the cylinder axis. Rather it suggests the rise of inverse at the expense of the direct. It appears that the higher degrees of astigmatism are consistently more often with the rule. It is also observed that in R 42 and R 52 districts the males show a mean compound myopic astigmatism in the youngest age-groups, whereas the females are more consistently hyperopic: they show both more hyperopia as well as a slightly greater astigmatism.

Other papers of interest include: "A Note on the Transposition of Obliquely Crossed Cylinders," by H. H. Emsley; "The Relative Distribution of Refractive Defects and Their Correction," by Owen Aves; "Muscular Imbalance, Charted with Esdaile's Myographograph," by Dr. Margaret Dobson; "The Mechanism of Accommodation—its Anatomical and Physiological Aspects," by E. F. Fincham; "A Review of Lens Theory," by T. Smith; "Total Reflection," by E. T. Hanson; "A Mechanical Theory of Heterophoric Correction," by J. B. Reiner; "The Manufacture of Gold-filled Spectacle Frames," by G. D. Rosser; "The Influence of Illumination on Visual Acuity," by Drs. Lythgoe and Hartridge; "The Problem of the Anisometropes," by W. B. Barker; "The Influence of Facial Asymmetry upon Ophthalmic Prescribing," by H. L. Taylor; "Some Developments in Ophthalmic Fitting," by W. E. Hardy; "The Taylor-Hobson f 2.5 Anastigmat," by H. W. Lee; "The Telephoto Lens," by L. B. Booth; "Some Recent Advances in the Manufacture and Use of the Microscope," by Conrad Beck. Among the authors of other papers are such well-known names as C. H. Friese-Greene, and Professors Fournier d'Albé, F. A. Lindemann, W. Peddie, A. F. C. Pollard, A. O. Rankine, R. A. Sampson. The entertainments section includes a number of popular discourses, optical demonstrations, and dramatic performances, arranged to afford opportunities for optical illusions. Among the demonstrations is one of an instrument known as the Optophone, which, it is claimed, will enable a blind person to "read" ordinary printed books or newspapers. This instrument, the invention of Dr. E. E. Fournier d'Albé, translates each letter into a definite sound character of its own, which the blind can be taught to recognise through headphones or loud speakers. Several of Newton's historical experiments are also being repeated. These entertainments are being given in the afternoon and evening of each day, including Saturday.

THE EXHIBITION

is undoubtedly the most representative collection of British optical instruments ever shown, and includes research and experimental apparatus loaned by individuals, research laboratories, historical apparatus and commercial exhibits. Among the last-named are displays of photographic lenses by J. H. Dallmeyer, Ltd.; Ross, Ltd.; Taylor, Taylor & Hobson, Ltd.; R. & J. Beck, Ltd.; and Aldis Bros.; while cameras and cinematograph projection apparatus form the leading features at the stands of Houghton-Butcher (Great Britain), Ltd., and Amalgamated Photographic Manufacturers, Ltd. Ophthalmic lenses and apparatus is being shown by, among others, United Kingdom Optical Co., Ltd.; C. W. Dixey & Son; Willmotts, Ltd.; Stigmat, Ltd.; J. & H. Taylor (London), Ltd.; the Hadley Co., Ltd.; J. & R. Fleming, Ltd.; Raphael's, Ltd.; the British Ocentric Optical Co., Ltd.; and William Gowlland (1916), Ltd. Chance Bros. & Co., Ltd., have an interesting exhibit of optical glass in stages of manufacture, lighthouse lenses, "Crookes" glass and heat-resisting illuminating ware. Several exhibitors, including C. Baker, W. Watson & Sons, Ltd., and Ogilvy & Co., are showing microscopes and accessories. In this connection mention must be made of the stand of Stafford Allen & Sons, Ltd., who have a display of Sira and Aris immersion oils, mountant

and cement. The former oil is prepared according to the directions of the British Scientific Instrument Research Association, its refractive index being adjusted for use with modern high-power objectives. Freedom from corrosive action on metals or optical glasses is another of its virtues. Aris oil has similar characters but a rather lower refractive index, and is less expensive. Sira mountant is intended to replace Canada balsam. Interferometers, polarimeters, and a strain viewer for glassware are among the instruments which may be inspected at the stand of Adam Hilger, Ltd., while other measuring instruments and general laboratory apparatus is shown by the Cambridge Instrument Co., Ltd. Laboratory ware of fused quartz is displayed by Thermal Syndicate, Ltd. The Tintometer, Ltd., show their instrument for determining colour blindness and colour perception, and Short & Mason have an exhibit incorporating sphygmomanometers and thermometers. Scientific illumination is illustrated by Holophane, Ltd.

EXPERIMENTAL AND RESEARCH SECTION

Several extremely fascinating displays are to be seen in this section, and a brief description of those of most interest to chemists is given in the following paragraphs:

The National Physical Laboratory is showing interferometers, a colour temperature pyrometer and apparatus for viewing the light issuing from a series of narrow slits of different widths. In addition, there is a series of five diffraction gratings: (1) A plane grating of 14,400 lines per inch, suitable for general work in the visual and ultra-violet regions of the spectrum; (2) a concave grating of 14,400 lines per inch; (3) a plane grating of 24,000 lines per inch, ruled in gold deposited on a flat brass plate and suitable for work in the infra red; (4) a concave grating of 23,800 lines per inch; (5) a concave grating of 14,400 lines per inch, suitable for work in the ultra-violet region. Another interesting instrument is a vector colorimeter, the object of which is to enable a colour to be specified by qualitative measurements involving colour matches only, so as to avoid difficulties inherent in quantitative evaluation of the colour match. A spherometer which is sensitive to a ten-thousandth of a millimetre is another optical apparatus on view. The special feature of the instrument is that the central leg terminates in a small sphere of quartz, and the exact degree of contact which it makes with the surface under test is ascertained by the interference rings surrounding the point of contact.

An interference fringe counting instrument is shown by Dr. E. E. Fournier d'Albé and Mr. F. O. Symonds. This is a selenium apparatus for mechanically registering the passage of interference fringes which can be seen emanating at one part of the instrument and seen or heard registering elsewhere.

Among the display of the Technical Optics Department of the Imperial College of Science there is one exhibit in particular of interest to ophthalmic opticians, i.e., thread models of ray paths in the presence of aberration, illustrating spherical aberration, coma, astigmatism and spherical aberration, coma and astigmatism.

Dr. Judd Lewis, F.I.C., Ph.C., exhibits his sector photometer for spectrophotometry in the ultra violet, and illustrates some of its practical applications. For instance, photographs of the ultra-violet absorption spectrum of quinine hydrochloride illustrate the application of spectrophotometry to the purposes of pure science (for the determination of chemical constitution), toxicology (for identification and quantification of poisons), and technology (for precise control of processes and products). Optical and other glasses, when examined spectrophotometrically, exhibit transmission curves, or conversely density or absorption curves, which reveal peculiarities on various wavelengths not otherwise indicated by a simple absorption spectrum.

Spectacle frames, lenses, microscope slides, optical instruments, drawings of sections of the eye and field of vision charts are among the examples of the students' work shown by the department of applied optics of the Northampton Polytechnic Institute, London. On the experimental and research side are photomicrographs

of sections of various parts of the human eye, photographs of Purkinje images in the accommodated and relaxed eye, a model to show the effect of elasticity of the capsule upon the form of the lens in accommodation, and a Tscherning's ophthalmophakometer.

Incorporated in the display of the Refraction Hospital is a cubicle containing the latest acquisitions which have been presented by Mr. Osmond P. Raphael in admiration of the unselfish work of the hospital staff. The equipment includes an elaborate test case, the new Maddox chart for subjective tests, the latest form of perimeter, and a "poison" cupboard. Surrounding the cubicle are many examples of the research work carried out by the staff and students at the hospital.

Specimens of glasses and enamels and of artificial human eyes are shown by the Optical Appliances Depot of the Ministry of Pensions, which makes all the soda glass required and fits eyes for over 5,000 wounded war pensioners each year.

An exhibit which attracted considerable attention was an optical smoke box, designed by Mr. W. O. Clarke, of Leatherhead. This apparatus, which is used for demonstrating the principles of optics, consists of a smoke cloud rendered stable and uniform by special means. Beams of light from an arc outside the box are rendered visible inside the box, and the effect on the beams of lenses, mirrors, prisms and other optical apparatus (contained inside the box) is clearly demonstrated.

U.S. Foreign Trade

DURING the year 1925 the United States exported goods to the value of \$4,909,396,342 (1924: \$4,590,983,845), of which re-exports represented a value of \$91,125,000 (\$93,335,000). Imports into the United States totalled \$4,227,995,091 (1924: \$3,609,962,579), of which 62.7 per cent. (1924: 57.6 per cent.) were dutiable. The active balance of trade is reflected in the excess of exports over imports, which amounted to \$681,401,000 (1924: \$981,022,000). Exports to the United Kingdom totalled \$1,031,876,748 (1924: \$982,941,882), while imports from Great Britain figured with \$412,315,859 (1924: \$366,465,553). Turning to a consideration of the various groups of merchandise figuring in the U.S. summary of foreign commerce, we find that the total imports of chemicals (exclusive of fertilisers) reached a value of \$48,896,441 (1924: \$43,122,533), of which medicinal and pharmaceutical preparations participated to the extent of \$5,832,400, an increase of 22 per cent. over the corresponding figures for 1924; incidentally it may be remarked that 45 per cent. of the total value of the imports of this group is represented by menthol alone, the amounts imported rising from 193,261 lb. in 1924, value \$1,743,937, to 293,807 lb., value \$2,598,550, in 1925. Imports of essential oils also show an increase, from \$5,527,829 in 1924, to \$6,344,868 in 1925, a decrease being registered only for oils of thyme, lavender, and sandalwood. Although the amounts show an increase, there is a slight decline in the value of the imports of crude drugs—1924: 96,361,858 lb., value \$7,901,713; 1925: 111,900,854 lb., value \$7,828,783. With regard to exports, the past year again bears witness to the expanding trade of the United States. The total value of chemicals exported (excluding fertilisers) rose from \$53,434,735 in 1924, to \$58,277,283 in 1925. In the groups of medicinal and pharmaceutical products the increase over 1924 amounts to about 13 per cent.; particularly striking is the enormous expansion in the exports of quinine sulphate and other cinchona alkaloids, from 321,490 oz. in 1924, to 688,024 oz. in 1925. Exports of "naval stores," i.e., rosin, oil of turpentine, wood tar, resins, show an increase of about 25 per cent., from \$25,653,958 in 1924, to \$32,119,238 in 1925; this increase is mainly due to the higher price fetched by rosin, exports of which were actually lower than in 1924 by 280,052 barrels. In the following table the United States imports and exports of those goods of interest to our readers in 1924 and 1925 are compared, based on the official U.S. statistical tables.

	Imports		Exports	
	1924	1925	1924	1925
	Lb.	Lb.	Lb.	Lb.
Acid, arsenious	17,703,996	18,631,387	—	—
Acid, boric ..	—	—	727,082	766,234
Acid, citric ..	744,624	687,010	—	—
Acid, tartaric ..	2,986,680	3,580,253	—	—
Beeswax and other animal wax ..	3,096,413	3,556,794	—	—
Borax ..	—	—	33,741,676	33,888,135
Calcium citrate	2,505,444	3,430,875	—	—
Camphor, crude	1,847,785	2,369,413	—	—
Camphor, refined and synthetic	2,861,654	—	—	—
Camphor, refined	—	1,583,902	—	—
Camphor, synthetic ..	—	1,834,988	—	—
Cardamoms ..	118,903	180,706	—	—
Cinchona ..	2,395,704	2,917,234	—	—
Cloves ..	5,345,453	6,997,597	—	—
Coal tar products, medicinal ..	92,203	107,889	288,405	728,090
Cosmetics, powders, creams, etc.	1,059,506	1,242,641	2,267,469	2,535,379
Cream of tartar	1,525,894	338,297	—	—
Dentifrices ..	—	—	3,078,303	3,405,724
Dextrine ..	—	—	22,190,677	22,678,346
Formaldehyde ..	—	—	2,897,822	2,799,116
Ginger ..	5,062,832	4,265,268	—	—
Ginseng ..	—	—	167,318	138,131
Glucose ..	—	—	171,721,842	146,068,313
Great Britain	—	—	102,830,138	88,592,708
Glycerin ..	15,927,701	21,292,301	1,415,882	1,367,191
Gum acacia ..	7,306,795	7,256,155	—	—
Honey ..	276,514	252,393	5,013,760	5,088,670
Iodine, crude ..	—	—	246,474	—
Liquorice extract	1,619,015	1,689,046	—	—
Liquorice root	65,164,296	77,827,007	—	—
Mace ..	740,484	641,988	—	—
Medicated plasters ..	—	—	488,387	499,746
Medicinal and pharmaceutical preparations, n.e.s.	2,132,489	2,222,691	31,322,961	35,228,339
Menthol ..	193,261	293,807	—	—
Mercury ..	905,678	1,708,560	15,581	15,289
Nutmegs ..	3,682,033	4,357,927	—	—
Nux vomica ..	1,392,534	1,488,126	—	—
Oil, bergamot ..	72,847	116,336	—	—
Oil, citronella; lemon grass ..	985,286	1,321,821	—	—
Oil, cod, and cod-liver (gal.) ..	2,846,588	2,975,557	—	—
Oil, geranium ..	108,287	203,219	—	—
Oil, lavender ..	226,268	183,483	—	—
Oil, lemon ..	439,181	488,236	—	—
Oil, orange ..	202,595	228,474	—	—
Oil, peppermint ..	—	—	176,820	68,038
Oil, rose (oz.) ..	47,981	56,830	—	—
Oil, sandalwood ..	56,153	22,014	—	—
Oil, thyme ..	114,597	81,489	—	—
Oil, turpentine (gal.) ..	—	—	11,510,154	11,557,221
Great Britain	—	—	6,637,407	6,787,262
Opium ..	64,041	86,043	—	—
Pepper, black ..	24,380,638	30,908,729	—	—
Pepper, white ..	5,051,825	7,213,550	—	—
Perfume materials, duty free	35,223	28,727	—	—
Perfumery, bay rum; toilet waters ..	1,424,071	1,128,139	400,435	465,179
Quinine salts (exc. quin. sulph.) and cinchona alkaloids (oz.)	2,041,585	1,426,676	—	—
Quininesulphate (oz.)	1,210,086	1,523,790	—	—
Quinine sulphate and cinchona alkaloids (oz.)	—	—	321,490	688,024
Rosin ..	—	—	*1,452,387	*1,172,335
Great Britain	—	—	*386,593	*263,326
Senna ..	3,005,043	2,984,338	—	—
Serums; vaccines; antitoxins (c.c.)	—	—	31,503,763	31,785,965
			(\$1,054,870)	(\$1,248,874)
Serums; toxins; vaccines; blistering insects	(820,634)	(815,143)	—	—
Soaps, toilet ..	933,814	1,073,716	5,376,453	6,749,339
Strychnine and salts (oz.)	99,123	196,463	—	—
Talcum and other powders ..	—	—	3,228,723	3,468,579
Tooth brushes (No.) ..	14,784,286	10,038,333	—	—
Tragacanth ..	831,225	966,498	—	—
Vanilla ..	809,135	945,572	—	—
Vegetable drugs, crude, n.e.s.	18,776,119	18,473,655	7,722,346	5,742,695

* Barrels of 500 lb.

n.e.s.=not elsewhere specified.

Associations' Winter Session

Edinburgh.—The Edinburgh Chemists', Assistants' and Apprentices' Association held the annual business meeting on April 7, Mr. Eric Knott, Ph.C. (President) in the chair. Miss Margaret McA. Smith, M.P.S., secretary, read the annual report of a highly successful session. The membership showed an increase of twenty-four. Mr. J. J. Blackie, Ph.C., F.C.S., treasurer, submitted the financial statement, which showed a balance of £4 13s. 9d. The report and financial statement were adopted, and a donation of £1 1s. voted to the Benevolent Fund. Mr. J. W. Teesdale then gave an interesting address and practical demonstration on *Some Electric Batteries and Their Uses*. Primary batteries were then explained and practically demonstrated, including the Daniell, Grove, Bunsen, bichromate, and Leclanché cells, and the modification of the latter known as a dry cell. The secondary or storage batteries were also explained and illustrated by the lead accumulators. Primary cells, it was stated, despite their utility, had never got beyond the stage of being pieces of laboratory apparatus, while secondary cells were of almost universal application, and could be had weighing anything from two to three ounces to as many tons, and an entire series of them, as used in large power stations, might weigh as much as 300 tons. Mr. Hamilton B. Young, M.P.S., initiated a discussion by a dispensing note on an ointment which in one case was prescribed with vaseline as the base and in the second case with soft paraffin, B.P., as the base. The prescription was:—

Acid. salicylic.	gr. v.
Pulv. zinci oxid.,	
Pulv. amyli	aa. ʒij.
(1) Vaseline	ad ʒj.
or	
(2) Paraff. molle	ad ʒj.

The discussion was taken part in by Messrs. Ritchie, Latimer, Hedderwick, Stout, Laing, Aitken, and Miss Purdie. Some said white vaseline should be used, but Mr. Young pointed out that the original vaseline was yellow, and white vaseline was a newer product, and never called merely vaseline. He also said that white vaseline should never be used on a mucous membrane, because there was always the possibility of its being slightly acid, due to the bleaching process it undergoes. On the other hand, there was complete agreement that in the case of soft paraffin there was no doubt white soft paraffin should be used, because the Pharmacopœia directed it to be used when the medicaments were white or nearly so. Mr. Young said these two prescriptions had been dispensed, sometimes yellow and sometimes white, in different pharmacies. He suggested that dispensers should note on the prescription when white vaseline or white soft paraffin was used, so as to secure uniformity. Mr. Young also drew attention to an instance in which a four-ounce bottle which had contained olive oil and was so labelled had been used as a container for lysol by another vendor who placed the lysol label on top of the olive oil label so carelessly that it had almost become detached. He had on some occasions removed from a bottle as many as six or eight labels, all one on the top of the other. This was a dangerous habit which should not be tolerated. Office-bearers and committee for 1926-27 were elected as follows: *President*, Eric Knott, Ph.C.; *Vice-President*, J. W. Laing, M.P.S., F.C.S.; *Hon. Secretary*, Isabella A. Purdie, Ph.C., 133 Bruntsfield Place; *Assistant Secretary*, Agnes Donald; *Treasurer*, George Hedderwick; *Committee*, Misses Inglis, McEwan, and Smith, and Messrs. Aitken, Blackie, Hunter, Teesdale, and Young; *Price Committee*, *President*, *Vice-President*, *Secretary*, and *Dr. Tait*, Mr. Blackie, and Mr. Stout. On the motion of Mr. A. G. Hogstrom, M.P.S., a cordial vote of thanks was awarded to the retiring office-bearers.

Southend-on-Sea.—The annual meeting of the Southend-on-Sea Association of Pharmacists was held recently, Mr. G. Bruce (President) in the chair. The following were elected officers for the year: *President*, Mr. F. H. King; *Vice-President*, Mr. A. Atkinson; *Treasurer*, Mr. B. Baker; *Hon. Secretary*, Mr. A. S. Rollin;

Hon. Solicitor, Mr. W. S. Jerome. *Committee*: Miss Blackburn, Messrs. Carpenter, Bruce, Cowe, Misselbrook, Powell, Thomas, and Longthorne.

Southport.—A meeting of the Southport Pharmacists' Association was held on March 23, when Mr. James Grier, of Manchester University, gave an address on *Some Incompatibles*. Mr. Kendrew presided, and the large attendance included a number of students at the local Technical School. At the outset Mr. Grier presented the prizes won by the students in their last examination at the school, and in addressing the students he encouraged them to continue their studies and so prepare for the more important examinations which had to follow. After a brief discussion of the paper, Mr. Grier was thanked by Mr. Macdonald and Mr. Messenger.

Thames Valley.—The Thames Valley Pharmacists' Association held the annual general meeting at Kingston-on-Thames on April 14, the President (Mr. W. S. Howells) in the chair. The President gave a short address on *Current Pharmaceutical Matters*, in which he laid special stress on the proposed addition of barbituric acid and its derivatives to the Dangerous Drugs Act schedule. He strongly supported the action of the Council of the Pharmaceutical Society in fighting against the matter. He considered that the departure of Sir William Glyn-Jones to Canada was a great loss to pharmacy in this country. Was not the Proprietary Articles Trade Association the greatest asset that the trade had received for many years, and this was only one of the many activities of Sir William's busy life in the interests of pharmacy. Mr. C. B. Harrison, secretary, and Mr. E. F. Minter, treasurer, presented their reports. There was a satisfactory balance in hand. The following are the officers for the ensuing year:—*President*, Mr. H. E. Clement (Hampton Hill); *Secretary*, Mr. C. E. A. Goode (Twickenham); *Committee*, Messrs. E. Moss (Feltham, Middlesex), E. L. Slade (Surbiton), A. P. Thomas (Kew, Richmond), H. T. Warman (Teddington), with the President and Secretary. A long discussion ensued on a series of resolutions received from the Pharmaceutical Society:—(a) That a meeting of branch delegates be given powers at present possessed by the general meeting, such a meeting not necessarily to supersede the present annual general meeting. Mr. Goode opened the discussion, saying that this was a matter that had arisen out of the last by-laws, when it was felt that the rank and file of members were not properly represented at meetings of the Society. Messrs. Tims, Howells, and others spoke in support, and a resolution in its favour was carried. The following resolutions (b) That the title of pharmaceutical chemist be given to chemists and druggists, and (c) that all registered pharmacists should pay an annual registration fee were considered together, and passed. Regarding a resolution (d) That the Council of the Pharmaceutical Society should have power to remove persons from the register, the feeling was that the meeting should know more of what was in the mind of the Council, and for what offences they should have the power before they passed any resolution in support of such powers. It was decided to ask the Council for a fuller explanation. A resolution was passed in support of the action of the Pharmaceutical Society in opposing the addition of barbituric acid and its derivatives to the list of "dangerous" drugs.

Walthamstow.—The Walthamstow Pharmaceutical Association held a meeting on March 31, Mr. A. M. Brown (President) in the chair. Members had been asked to bring forward suitable topics for discussion, and among the many items were dispensing notes, the price-cutting of protected lines, the profit on a new toilet soap, the Dangerous Drugs Acts, and the cash on delivery postal system. A selection of THE CHEMIST AND DRUGGIST series of Poison, Insurance and Shops Act cards were exhibited. These received the general approbation of members, and were considered to be a ready means of obtaining information required at a moment's notice.

THE children attending the La Motte Street School at St. Helier, Jersey, have been entertained by Sir Jesse and Lady Boot to mark the completion of the school.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the
National Health Insurance Acts

ENGLAND AND WALES

Local Reports

Bolton.—At a meeting of the Insurance Committee, held recently, Mr. J. Tyson Cooper remarked that to a certain extent a little carelessness was being shown in the dispensing of drugs. In one case the certificate of analysis showed a deficiency in diluted nitro-hydrochloric acid to the extent of 23.6 per cent. The certificate was confirmed by the contractor's analyst, who also reported on a sample of the drug from the contractor's stock. This proved deficient in strength by 8.6 per cent. The observation was made that diluted nitro-hydrochloric acid loses its neutralising power by keeping, but that the loss was variable, according to circumstances. The Pharmaceutical Service Committee reported the same prescription was inaccurately dispensed, and said the justice of the case would be met if the contractor was requested to show greater precaution in dispensing future prescriptions. Mr. T. S. Barlow (secretary) said there had been eleven tests for drugs and four for appliances. Four required further consideration. Statistics showed that prescriptions dispensed during 1925 were 350,662 (increase of 16,466 on 1924 and 164,369 on 1919). In the past seven years the total cost per insured person has increased from 23.69d. to 34.80d.

Bristol.—At a recent meeting of the Insurance Committee Mr. A. L. Strode Cosh raised the question, on behalf of members of the Pharmaceutical Society, as to whether dispensing at the Institutes of Approved Societies was done by qualified dispensers, as was necessary under the Insurance Act. He asked the following questions: Is dispensing done by fully qualified pharmacists, as necessary by the Act of Parliament? What steps can be taken to ensure the purity of drugs dispensed? How is the testing of dispensing done by the Approved Societies? What service is given outside regulation hours, whereby the insured persons could get their medicines in cases of emergency, such as night service, holidays, Sundays, and after hours. Mr. H. G. Robbins, in reply, said that he believed that all the institutes had to have qualified dispensers. So far as the purity of drugs was concerned, the conditions of testing were the same with approved societies institutes as for the ordinary chemist. As to hours, at the institute with which he was concerned—and he believed it applied to all—there were certain hours for dispensing, and in the event of medicine being urgently required the doctor who prescribed it made arrangements for it to be supplied either by himself or at the institute. Mr. W. B. Griffin said pharmacists need have no doubt that the institutes were carried on in up-to-date fashion, and doing their work properly. Mr. Cosh said he did not suggest that the work had not been well done, but wished to know if the restrictions applying to pharmacists applied to the institute dispensers.

Croydon.—At a meeting of the Insurance Committee, on April 2, it was decided to censure, "for lack of judgment," a Croydon chemist after a considerable discrepancy had been found in the quantities of the ingredients of a six-ounce mixture. The chemist, who tendered his apologies, explained that the mixture was kept in "stock" form. The Mayor (Councillor A. J. Camden Field), who is chairman of the Pharmaceutical Committee, said the facts were admitted, and it was in the opinion of the Committee a serious case "when a man attempts to do, at the cost of a public service, something which is impossible." In this case the chemist had endeavoured to keep, for use, a stock preparation containing two insoluble ingredients, and the inevitable consequence was that, when the stock preparation was used, the necessary shaking of the container was neglected, and, of course, the ingredients of bis. carb. and mag. carb. were short. The original prescription was for 60 gr. of bis. carb. and 60 gr. of mag. carb., but what was served was 36.85 gr. and 37.62 gr. respectively. The Subcommittee, in their report, were

satisfied that there was no deliberate attempt made by the chemist to dispense the prescription in an irregular manner, and they felt sure that the chemist now realised he should not keep such a mixture in stock form.

North Shields.—A 4-oz. packet of unmedicated cotton wool gave rise to an interesting discussion at the quarterly meeting of the Tynemouth Insurance Committee, held on April 13, in the Committee's offices, North Shields, Mr. W. J. Carpenter presiding. In accordance with the scheme for testing from time to time drugs and appliances supplied to insured persons, a special agent recently took prescriptions to various panel chemists in the borough. The commodities or medicines supplied were duly sealed and sent to the authorised testing house at Manchester. The packet of cotton wool referred to was supplied according to a written order taken to one chemist, and upon its being tested it was found that it did not conform to the requirements of the British Pharmaceutical Codex. The Pharmaceutical Service Subcommittee, which dealt with the case, had the chemist before them, it was reported, and it was explained that chemists did not pack cotton wool. It was bought in packages already made up, and sealed in accordance with the National Health Insurance regulations, from manufacturers who guaranteed that it was of the quality required by the B.P. Codex. The Committee came to the conclusion that the breach of contract was only technical, and that the chemist acted in perfectly good faith. The Committee felt itself bound, however, to hold the chemist responsible, having no remedy against the contractor, and consequently recommended that the chemist be warned, and that, subject to the approval of the Minister of Health, the sum of £2 2s. be deducted from the next sum due to the chemist. Mr. J. Fawcett Hogg, who is a chemist, strongly protested against the subcommittee's recommendation. His firm got cotton wool from the same manufacturers, who were admittedly the finest makers of the commodity in the country, if not the world. Moreover, it was made up into small packets by the makers, and had a guarantee label upon it. He asked what could a chemist do more than rely upon the manufacturer's guarantee. He personally would not pay any fine if it were his case. He would let the law take whatever course it liked. Councillor Munby said the subcommittee had tried to be strictly fair, and it had been unanimous in its finding. "How many of you here know anything about the technicalities of the matter?" Mr. Hogg asked. Dr. Adams pointed out that the chemists had two representatives on the subcommittee and the finding was unanimous. The report was adopted, whereupon Mr. Hogg remarked that the Committee would probably hear more about it. There was an important principle involved, he said.

Portsmouth.—At the meeting of the Insurance Committee, held recently, a letter was considered from the Pharmaceutical Committee regarding a complaint of difficulty experienced by a patient in securing the dispensing of an urgent prescription after business hours. The Pharmaceutical Committee pointed out that the hours of supply had been settled by agreement, and that it is part of the general conditions of service applicable to both doctors and chemists that when drugs, etc., are not conveniently obtainable from the chemist, the doctor himself should supply them, for which he is specially remunerated by the Committee. In a report upon the same subject, the Medical Benefit Sub-Committee stated that there is no evidence that the issue of urgent prescriptions after 8 p.m. is other than strictly limited. For the year 1921, when the last return was obtained, there were 171 such prescriptions in the area, and it is clear that the amount of urgent dispensing would not justify a pharmaceutical service after ordinary hours, although it is understood that when available chemists dispense urgent medicine after 8. It was decided to allow the present arrangement to stand. The estimates of the Joint Pricing Committee showed that the probable expenditure for 1926 would be £6,180, as compared with an actual expenditure of £6,936 11s. 3d. last year. The estimated number of prescriptions from Portsmouth was placed at 255,000 out of a total of 4,500,000 for the area. It was also reported that the final settlement with the chemists for 1925 was being proceeded with, the total

of the chemists' accounts for 1925 being £9,141 7s. 9d., against £8,759 1s. in 1924. The total sum payable to the doctors was £30,642, compared with £31,238 in 1924.

Sheffield.—A meeting of the Pharmaceutical Committee was held at the Church House recently, Mr. J. T. Appleton in the chair. The report on the testing of prescriptions was read, which showed a high standard of efficiency. The secretary drew attention to the special efforts made by the pricing bureau superintendent and staff to secure the payments of accounts on the usual date, despite the large increase in the number of prescriptions during the month. The secretary was asked to send a letter of appreciation to Mr. Meadows and his staff. Several letters were read, asking for the support of the Committee to retain Insurance Committees, and it was decided to take no action in the matter.—At a recent meeting of the Insurance Committee the clerk reported he had received a letter from a chemist, stating that a script presented for dispensing was returned to the practitioner as incomplete, and had not been again presented to him. The clerk further reported that he had received a script from the Pricing Bureau bearing the stamp of two chemists, which appeared to be the one mentioned by the chemist. The second chemist had added a note that he knew what the practitioner required. The matter was referred to the Joint Services Subcommittee. The chemists' accounts for February amounted to £2,942 2s. 9d.

Smethwick.—The average number of prescriptions per insured person in Smethwick is higher than that for any other area for which figures are available. This high average has persisted since 1913. During 1925 there were issued 150,244 prescriptions, the cost of ingredients being £2,117, and the cost of dispensing fees £2,775. The average cost per insured person was 38.1d. The average cost per prescription was 4.4d. dispensing fee and 3.4d. ingredients. The average number of prescriptions per insured person was 4.88.

St. Helens.—The Pharmaceutical Committee recently sent to the Retail Pharmacists' Union and to each Pharmaceutical Committee in England and Wales, with a view to consideration and adoption, the following resolutions:—

(a) That having regard to the recommendation of the Retail Pharmacists' Union contained in paragraph 82 (a) of the Statement of Evidence submitted to the Royal Commission on National Health Insurance on June 18, 1925, relative to the present method of administering medical benefit through Insurance Committees being continued, this Committee urges the importance of the Union taking such action as may be considered necessary to further the development of the aforementioned recommendation. (b) That this Committee is of the opinion that it is not in the best interests of insurance chemists for the powers and duties of Insurance Committees to be transferred to county and county borough councils.

Surrey.—A meeting of the Insurance Committee was held on March 31. The Medical Benefit Subcommittee reported that four chemists had joined the panel; there was one withdrawal. The administrative expenses of the Pharmaceutical Committee amounted to £400, of which £60 was for checking prescriptions. A reduction of 5 per cent. from dispensing fees was recommended. The Joint Committee for Pricing prescriptions has instructed the clerk to compile a list of articles and appliances disallowed by the Regulations and send it to doctors and chemists.

SCOTLAND

Aberdeen.—The Medical Service Subcommittee of the Burgh Insurance Committee has dealt with an important case relating to the prescribing of an ear lotion by a certain panel doctor in the city, and particularly regarding the question whether the doctor was justified in withholding what he seemed to regard as proper and sufficient medicine for one of his insured patients until such time as the committee indemnified him in advance against any action that might be taken thereafter by the Panel Insurance Committees in respect of alleged over-prescribing. The matter originated in an open letter sent by the practitioner to the clerk of the Insurance Committee asking whether he could prescribe boric acid

and rectified spirit on a National Insurance form without it being afterwards used against him for surcharge. He informed the committee that he had been surcharged before, but admitted that the Panel Committee's recommendation to surcharge him for excessive prescribing in 1923 was limited to what they termed the excessive use of cinnamon water as a flavouring agent, and had no direct association with the prescribing of rectified spirit for an ear lotion. He admitted that the action he took in this matter was largely due to the irritation he felt at being surcharged. At a meeting of the Burgh Insurance Committee, held subsequently, the recommendation of the subcommittee, "That the doctor be gravely warned to be more careful in future in observing the spirit and terms of the agreement which he voluntarily entered into with the committee," was approved.

Ayr.—The Burgh Insurance Committee has decided to recover from a doctor a sum of £34 4s. 8d. in respect of excessive prescribing during 1924. Two other doctors are to pay sums of £11 9s. 6d. and 8s. 9d. for excessive prescribing during the same period.

Drug Accounts Committee.—The Central Checking Bureau has issued a comparative statement showing for the years 1924 and 1925 the number and value of the prescription forms, priced and scrutinised, and in respect of which accounts were prepared, and also reports and doctors' statistical statements. Insulin to the value of £3,157 0s. 1d. in 1925 and £2,901 11s. 7d. in 1924 is not included in the total.

	FORMS	VALUE £ s. d.
The 54 Insurance Committees in Scotland	2,691,162	156,963 17 1½
Local Authorities (Tuberculosis Dept.)	22,560	2,616 15 6½
Local Authority (Child Welfare Clinic)	3,563	156 10 1½
Parish Councils	10,863	742 4 8½
Education Authorities	418	32 1 7
Ministry of Pensions	3,881	235 14 4
Manx Health Insurance Society	50,127	3,261 8 6½
Total for 1925	2,782,574	164,008 11 11½
Total for 1924	2,825,112	167,267 3 2½
Decrease	42,538	3,258 11 3

Elgin.—At the quarterly meeting of the Moray and Nairn Insurance Committee recently, it was reported that the accounts to chemists amounted to £250 for the months of November and December. This was a decrease compared with the corresponding months in 1924.

Fife.—At a meeting of the Insurance Committee, on March 24, intimation was made that the Scottish Board of Health had allowed credits in respect of administration to the amount of £1,448, against £1,415 last year; practitioners' fund, £30,397, against £29,871; drug fund, £4,954, against £4,868. The Board had also intimated supplementary credits in respect of 1925, to practitioners' fund, £863; drug fund, £141. The total amount paid to panel chemists for the year ended December 31 was £8,445 3s. 2d., against £9,361 0s. 7d. in 1924.

Lanarkshire.—It was reported at a recent meeting of the Insurance Committee that, during the year 1925, the sum of £2,685 was paid to doctors towards the supply of drugs and appliances, while for the eleven months ended November, chemists received the sum of £6,255.

U.S. DRUG TRADE IN 1925.—The Department of Commerce states there was a decline of more than \$1,000,000 in the value of exports of crude drugs, essential oils and dyeing and tanning materials during 1925, when the total reached \$6,573,481, compared with 1924, when the values of the exports amounted to \$7,647,613.

A SURPRISING DISCOVERY.—"There is little prospect, I understand, of the Minister of Health acceding to the demand made in certain quarters for an inquiry into the purity of the drugs obtained by panel patients. The official view is that ample safeguards are already provided. . . . It is also held that another safeguard is present in that no Minister dare face the opposition and criticism of the chemists."—"Star" Man's Diary in "The Star."

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, April 15.

THERE seems to be slightly more animation in the produce markets this week, now that the holidays are over, but little hope of any actual revival is entertained until the coal crisis is successfully disposed of and the Budget out of the way. The few changes in drugs include an easier feeling in cod-liver oil. Opium continues to advance in Turkey, where the market is reported as excited. Ergot and ipecacuanha remain firm. Damiana, euonymus, senega and turmeric have moved in buyers' favour. Pepper and cloves are weaker. Seeds continue dull and mostly unchanged. In the pharmaceutical chemicals group, rather better business has been evident, with the usual keen competition. A substantial decline is to take place next week in the makers' price of quinine. Milk-sugar is easier. Among industrial chemicals, the general tone is steady, with one or two slight alterations. Anhydrous ammonia and ammonium chloride are slightly easier. Cream of tartar is in fair demand. Lead products are cheaper, these including red and white lead and litharge. Sulphur is very firm and refined Sicilian rather dearer. Pyridine is cheaper and cresylic acid steadier. Among the so-called vegetable oils business is rather brighter, and a few items show a better tone. Cotton and coconut oils are firmer; ground nut and palm kernel are steadier. Turpentine is higher on the week. Other changes include a further decline in antimony and mercury.

Higher	Firmer	Easier	Lower
Belladonna root	Coconut oil	Acid oils	Antimony
Camphor oil	Cotton oil	Ammonia	Cod liver oil
Cananga oil	Cresylic acid	anhydrous	Damiana
Citronella oil	Patchouli oil	Ammon.	Dill oil
(Cey.)	Rosewood oil	chloride	Geranium oil
Lemon oil	Shallac (c.i.f.)	Bergamot oil	Heliotropine
Opium	(forward)	Caraway oil	Lead salts
Rape oil (crude)		Cedarwood oil	Mace
Sulphur		Citronella oil	Mercury
Turpeneol		(Jv., c.i.f.)	Pepper
Turpentine	Steadier	Cocoa butter	Pyridine
		Euonymus bark	Rosemary oil
		Peppermint oil	Rubber
		Sassafras oil	
		Turmeric	
	Ground nut oil		
	Palm kernel oil		

Cablegrams

NEW YORK, April 14.—Business is quiet. Mexican sarsaparilla has advanced to 50c. per lb. Peppermint oil in tins is 25c. cheaper at \$14.50 per lb., and senega has eased to 63c. per lb.

BERGEN, April 14.—The catch of cod since the opening of the season amounts to 43,500,000, against 32,900,000 at the same date of last year, and the yield of steam-refined medicinal oil is 69,505 hectolitres, against 60,382 hectolitres at the corresponding date of last year. The market for finest non-freezing Lofoten oil of the new crop is about 110s. per barrel, c.i.f. London.

Crude Drugs, etc.

AGAR AGAR.—Kobe No. 1 for April-June shipment is quoted at 3s. 3d. c.i.f., and Yokohama No. 1 at 3s. 1d. per lb. c.i.f. Spot value of Kobe No. 1 is about 3s. 9d.

ALMOND OIL.—Foreign sweet, expressed, is quoted on the spot at from 3s. to 3s. 3d. per lb. English is 3s. 10d. in cwt. lots.

ANTIMONY has further declined, the price of English having been again reduced by £5 per ton, and now stands at £89 10s. to £90. Chinese regulus or crude is considerably lower, due to the fact that the further

concessions made by shippers met with practically no response from this side. Spot lots of regulus could easily be secured at a little under £80, while offers for near shipment have been reported down to about £57. Crude is difficult to sell, the nominal quotation on the spot being approximately £50, and there is an absence of interest for forward shipment, which has been mentioned at all sorts of figures between and as low as £33.

BALSAM CANADA meets with a small demand at 5s. 3d. per lb. on the spot.

BELLADONNA ROOT is dearer at 50s. per cwt. c.i.f. for 0.48 per cent.

CAMPHOR (REFINED).—Japanese refined slabs offer at 2s. 10d. per lb. on the spot, and $\frac{1}{4}$ oz. tablets at 3s. 5 $\frac{1}{2}$ d. per lb.

CARAWAY SEED.—Dutch is dull and unchanged at 24s. 6d. per cwt. on the spot.

CARDAMOMS.—An auction of 288 cases Ceylon and Indian will be held on Thursday, April 15. Good bold pale Ceylon Mysore are worth about 8s. 9d. per lb.; Bombay seed is about 7s. spot and 5s. 6d. c.i.f.

CASCARA SAGRADA is steady, 1925 peel offering at 55s., 1924 at 60s. per cwt. on the spot, and for 1926 peel there is an offer from the Pacific Coast at 49s. c.i.f. for July-September shipment.

CLOVES are quiet, with Zanzibar offering on the spot at from 9d. to 9 $\frac{1}{2}$ d. per lb., as to quality. For March-May shipment sellers quote at 9d. per lb. c.i.f. The landings in London during the week ended April 10 were nil, and the deliveries 157, leaving a stock of 18,188 bales, against 11,664 in 1925, and 40,415 bales in 1924. The landings in London so far this year have been 8,263, against 3,181 in 1925, and the deliveries 4,280, against 6,521 bales in 1925.

COCOA BUTTER.—Prime English C.F.R. is 1s. 3 $\frac{1}{2}$ d., and other makes 1s. 3 $\frac{1}{4}$ d. per lb., in not less than one-ton lots.

COD-LIVER OIL has met with a fair amount of inquiry, finest 1926 Lofoten non-freezing steam-refined oil offering at about 110s. per barrel c.i.f. Our Bergen correspondent writes on April 12 that the catch at Lofoten was very good last week also, and the quantities were considerably increased. The total output of all the Norwegian codfisheries, compared with that of the previous years, is as follows:—

To	Catch of cod	Yield of steam-refined cod-liver oil	Livers for crude oils
April 3, 1926 ..	36,500,000	60,469 hectol.	5,352 hectol.
" 4, 1925 ..	30,200,000	55,711 "	5,575 "
" 5, 1924 ..	28,364,000	58,410 "	7,422 "
March 31, 1923 ..	26,432,000	53,771 "	7,088 "
April 1, 1922 ..	22,068,000	41,739 "	5,499 "

The market is quite dull, and the price has a declining tendency, although sellers are retired. Finest non-freezing steam-refined is quoted at 110s. per barrel c.i.f. The Finmarken codfishery will shortly commence, with good prospects.

DAMIANA is neglected at 1s. per lb. c.i.f. to arrive.

ERGOT is firm, with spot sales of sound Spanish at 4s. 6d. per lb.; several small lots of weevilly are offered at slightly less. Hamburg quotes 4s. 10d. c.i.f.

EUONYMUS BARK is rather cheaper at from 2s. 8d. to 2s. 9d. per lb. c.i.f.

GALLS are quiet, Chinese plum-shaped offering at 55s. c.i.f., and ordinary shape at 52s. 6d. per cwt. c.i.f. for April-May shipment.

GENTIAN.—Good sound French can be had at about 27s. 6d. per cwt. on the spot.

GINGER.—New crop West African is offered at 35s. per cwt. c.i.f., with the possibility of a bid at 2s. 6d. less being entertained. Spot value is 45s.

GUM ACACIA is quiet. Natural Kordofan sorts offer at 55s. per cwt. on the spot and cleaned at 57s. 6d.; for shipment, 47s. and 49s. per cwt. c.i.f. is quoted respectively.

IPECACUANHA.—During March the landings in London were 95 bales Matto Grosso and 11 Minas, the deliveries being 56 and one respectively. The stock on March 31 stood at 149 Matto Grosso and 10 Minas, against 223 and two at the corresponding date of 1925. First-hand sellers of Matto Grosso ask 14s. 6d. Cartagena is scarce and practically unobtainable on the spot.

JALAP.—Vera Cruz testing 10 per cent. can be had at 1s. 4d. per lb. on the spot.

LYCOPodium is very firm at from 7s. 6d. to 7s. 8d. per kilo on the spot.

MAGNESIUM is in moderate inquiry on the basis of 3s. 9d. to 4s. 3d. for small ingots or sticks, while powder is selling at 4s. 9d. to 5s. 9d. per lb. according to quality.

MENTHOL is easy at 19s. 6d. per lb. for Kobayashi-Suzuki on the spot. January-March shipment (affloat) is 19s., and March-May 19s. c.i.f., but no interest is shown in forward prices.

MERCURY has remained idle, and in spite of the continuation of light supplies, the market has further eased. Quotations vary from £13 17s. 6d. to £14 per bottle. The United States production for the past year amounted to only 9,174 bottles, according to preliminary official returns, which would therefore denote a decrease compared with the previous year of 911 bottles. The fact has to be noted that American imports for 1925 were very heavy, amounting to 22,781 bottles, of which 11,245 bottles came from Italy and 9,754 bottles from Spain. The American stocks in bond on January 1 were 1,181 bottles.

ORIUM.—The Constantinople market has been excited this week and prices are advancing, usual 11½ per cent. Turkey druggists' being quoted at 29s. per lb. Spot stocks are not being dealt in at the moment, prices being subject to confirmation.

PEPPER is dull and cheaper, fair black Singapore selling at 9½d. to 10d. per lb. on the spot. To arrive, the sales include March-May and April-June at 9½d. to 9d. c.i.f., and May-July shipment at 8d. per lb., c.i.f. delivered weight. Lampong is 9½d. to 10d. spot. May-July shipment has been sold at 8d. to 7½d. to 7½d., and August-October at 7d. to 6½d. c.i.f. d.w. Fair Telli-cherry is 1s. 1d. spot, and March-May shipment 100s. c.i.f. Alleppy is 1s. 0½d. spot, and March-May shipment 100s. c.i.f. White Muntok is easy at 1s. 1½d. per lb. on the spot; to arrive, March-May shipment has been sold at 1s. 2½d. to 1s. 0½d. to 1s. 0½d. F.a.q. Singapore has declined to 1s. 1½d. spot, and April-June shipment 1s. 0½d. c.i.f.

PIMENTO is quiet, with a few sales at 6½d. per lb. on the spot, and for March-May shipment 60s. c.i.f. is quoted.

RUBBER.—As anticipated in our last week's report, the market has again heavily declined, and at the close was fully 3d. per lb. lower on the week. This substantial setback is mainly due to the liquidation by stale "bulls," combined with the fact that stocks are increasing throughout the world weekly. As we have persistently stated, the heaviness of the April-June position would ultimately bring down prices in every other position, and we are to-day faced with a commodity which within three months has declined from 4s. per lb. to 2s. per lb. America is still holding off the market, and importers are still maintaining their previous attitude by withholding supplies from the market. Although further liquidation is expected, it would not be surprising to see a reaction in consequence of the sharp decline. Stocks last week were further reduced by 1,661 tons, and the London stock now stands at 15,401 tons. Quotations (Wednesday, 5 p.m.):—No. 1 standard ribbed smoked sheet, spot and April, 2s.; April-June, 1s. 11½d.; July-September, 1s. 11½d. per lb.

SARSAPARILLA.—A parcel of 15 bales grey Jamaica has arrived, for which 1s. 10d. per lb. is asked. The deliveries of sarsaparilla during March were 42 and the landings 22, leaving a stock on March 31 of 197, against 379 last year.

SEEDS.—A quiet tone still prevails in the seed market and prices remain unaltered:—**CANARY SEED.**—Mazagan is 24s. 6d. per cwt., Saffi 23s., and Larache 23s. 6d.; good bold Spanish, 35s.; and small, 29s. per cwt. **CUMIN SEED.**—Maltese is 35s. spot; Morocco is 30s. to 32s. 6d. spot. **ANISE.**—Spanish 50s., and Levant 42s. **CORIANDER SEED.**—Morocco is 15s. to 16s. spot; Russian is 16s. per cwt. **DILL SEED** is 20s. per cwt. on the spot. **FENUGREEK.**—Morocco is 13s. 6d. spot. **HEMPSEED.**—Manchurian is 13s. 6d. per cwt. **LINSEED.**—Morocco is 20s. **MUSTARD SEED.**—English is 48s. 6d. per cwt. on the spot.

SENEGA is about steady on the spot at from 2s. 7½d. to 2s. 8d., and for shipment 2s. 6d. c.i.f. is quoted for ton lots.

SHELLAC.—A steadier feeling is shown in the forward positions, with spot prices unchanged. Usual standard TN orange quality is quoted at 135s., fine second orange 180s., superfine 190s. to 300s., and AC cakey 140s. to 150s. To arrive, sellers of April-May shipment quote 125s. per cwt. c.i.f. in bags. Sales for delivery include May at 124s., August at 125s. to 127s. 6d. to 127s., and October at 127s. 6d. to 130s. Calcutta spot is rs.60.

TARAXACUM is quiet, with foreign offered at 60s. and English at 65s. per cwt. on the spot.

TURMERIC.—Fair Madras finger is slow of sale, and offered at 28s. per cwt., or a shade less.

WAX (VEGETABLE).—Japanese is steady at 82s. 6d. per cwt. on the spot, and for March-April shipment 78s. c.i.f. is quoted.

Essential Oils

THERE is more inquiry this week and a slight improvement in the demand is noted, although articles that are scarce attract the most attention. Among these are white camphor, cananga, lime and patchouli; supplies of the last-named, however, are now landing. Lemon has quickly recovered from its recent decline. Ceylon citronella is in fair demand and dearer. Easier quotations are made for bergamot, caraway, cedarwood, Java citronella, American and Japanese peppermint, sassafras, dill, geranium, and Spanish rosemary oils.

ALMOND.—Bitter oil, s.a.p., is offered on the spot at from 8s. to 8s. 3d. per lb.

ANISE (STAR).—"Red Ship" is unchanged at 3s. per lb. on the spot and 2s. 5d. c.i.f. in tins and cases.

ARAUCARIA.—Australian oil is quoted on the spot at 10s. 6d. per lb.

BERGAMOT has been rather easier on the spot at from 23s. 6d. to 30s. per lb. Prices from the source are about steady at 23s. 6d. to 29s. c.i.f.

CAMPHOR.—White essential has been in good demand and spot supplies of usual gravity have been practically cleared. Sales have been made at from 53s. 6d. to 55s. per cwt.

CANANGA.—Limited supplies on the spot of Java oil are held for 16s. 6d. per lb., which is dearer.

CARAWAY.—Dutch double rectified s.g. 0.910 is cheaper on the spot at from 5s. 9d. to 6s. per lb. Crude is quoted at 4s. 10d. to 5s. 3d., as to quantity.

CASSIA on the spot is unchanged at 8s. 6d. per lb. for 30 to 85 c.a. The forward position is easier at a shade below 7s. 3d., c.i.f.

CEDARWOOD.—American on the spot is slightly easier at 1s. 4d. to 1s. 6d. per lb., and 1s. 2d. to 1s. 3d. c.i.f. to arrive for drums or cases.

CITRONELLA.—Ceylon has been in fair demand and is dearer for shipment at 1s. 8½d. per lb., c.i.f. Spot has improved to 1s. 10d. Java oil is on the easy side at 2s. 6d., c.i.f., and spot is quoted at 2s. 7½d.

CLOVE.—English distillers quote 6s. 3d. to 6s. 6d. per lb. for high percentage. For quantity this would be shaded.

DILL.—English distilled is cheaper at 15s. per lb., and for quantity this might be shaded. Continental is quoted at 10s. 6d. to 11s.

GERANIUM.—Bourbon is cheaper at the source, with offers at 145 fr. per kilo c.i.f. (= 9s. 3d. to 9s. 6d. per lb.). On the spot from 10s. 6d. to 10s. 9d. is quoted. Algerian is unchanged at 10s. 6d. to 11s. on the spot.

GINGERGRASS.—Recent sales have been reported at 8s. 6d. per lb., c.i.f.

HO.—Japanese is quoted at 5s. 9d. per lb. c.i.f.

LEMON.—As reported last week, values underwent a sharp decline at the source and this was followed by almost as rapid a recovery. Some of the best brands fluctuated hardly at all. The lowest quotation received this week appears to have been 7s. 3d. per lb. c.i.f., and 7s. 6d. was then paid. Values have again advanced, and sales of one well-known brand have been made at 8s. 6d. c.i.f., which is about the value at the close. The effect of the decline seems to have been to bring out weak holders who have sold their supplies, and the position is now considered to be stronger. Certain London importers have been advised by their principals that a survey has revealed no hidden supplies, and given a good summer the opinion is held in these quarters that 12s. may be reached this year. The pressing season is now about to end. On the spot sales have been made around 7s. 6d. this week, but holders are asking from 8s. to 9s.

PALERMO, April 9.—Between our last report and the Easter holidays, needy sellers had to content themselves with such prices as they could get, and buyers succeeded in depressing

prices considerably. However, the business was only of an occasional nature, the demand from abroad being exceedingly quiet, and the decline contributing to frightening off foreign buyers, on the assumption that the market here was breaking. But the fall in prices was not in harmony with the value of fresh fruit, and a further reduction in pressings resulted. Since then the market has improved, and now sellers are lacking, and interest is being shown by local operators. From abroad important quantities are being inquired for for shipment during the summer months. As regards the production, we can only confirm the information given at the beginning of the season. There has been no increase in pressings to indicate an improvement in the total output.

LEMONGRASS.—Cochin is dearer at 3s. 7d. per lb., c.i.f., and 3s. 10d. on the spot, but there is very little business passing.

LIME.—West Indian distilled has been selling at 30s. per lb.

ORANGE.—Sicilian sweet is unchanged at from 10s. to 11s. per lb. on the spot or c.i.f. to arrive.

PALMAROSA.—The demand continues slow and rather easier quotations are made at 9s. 3d. per lb., c.i.f., for shipment. On the spot sellers quote 10s. 6d. or less for quantity.

PATCHOULI.—Recent inquiry points to small spot stocks. New arrivals of Penang usual quality are offered around 21s. per lb., but sales of actual spot have been made at 21s. 6d.

PEPPERMINT.—Quotations for American natural are about 60s. to 65s. per lb., c.i.f., as to brand. Spot supplies are obtainable at from 65s. to 70s., according to brand. Japanese is in little inquiry, and the spot price of Kobayashi-Suzuki is nominal at 11s. per lb., the actual value being a matter of negotiation. Sellers of January-March quote 10s. c.i.f., at which sales have been made.

PIMENTO.—Spot lots are quoted at 9s. 9d. to 10s. per lb.

ROSEMARY.—Spanish is cheaper at from 1s. 10d. to 1s. 11d. per lb., as to quantity.

ROSEWOOD (BOIS DE ROSE).—On the spot, offers remain steady at from 11s. to 11s. 3d. per lb., but prices at the source are higher, the increase being neutralised by the lower value of the franc.

SANDALWOOD.—West Indian (*ol. amyris*) is offered on the spot at from 5s. to 5s. 3d. per lb., as to quantity. B.P. East Indian is steady at 24s. to 25s.; West Australian is unchanged at 16s. in case lots.

SASSAFRAS.—Genuine American is slightly easier at 4s. 3d. per lb. For quantity this would be shaded in some directions.

SPEARMINT.—American is unchanged at 40s. per lb. on the spot.

SPIKE.—Spanish is unchanged on the spot at from 4s. to 4s. 4d. per lb. French oil is quoted at 5s. 9d.

VETIVERT.—Bourbon on the spot has been sold at 47s. 6d. per lb. in small lots. For shipment, 45s. to 47s. c.i.f. is quoted.

The following arrivals of essential oils have taken place from the countries indicated during the period April 8 to April 14 (inclusive):—Almond, bitter (Fr.), 2 cs.; bay (B.W.I.), 1 cs.; bergamot (It.) 6 cs., (Germ.) 1 cs.; cananga (Holl.), 1 dm.; cassia (Fr.) 5 cs., (Ch.) 10 cs.; cedarwood (U.S.) 25 cs., 3 dm., (Fr.) 3 cs., (Germ.) 1 cs.; cinnamon (Seych.), 7 dm.; copaiba (U.S.), 10 cs.; cryptomeria (Jp.), 2 cs.; eucalyptus (Aust.), 45 cs.; geranium (Fr.) 4 cs., (Réun.) 3 dm., (Alg.) 5 dm., 4 cs.; lavender (Fr.), 2 cs.; lemon (It.), 4 cs., 6 x $\frac{1}{2}$ cs.; lime (B.W.I.) 1 cs., (U.S.) 4 cs., (Fr.) 6 cs.; mandarin (It.), 5 cs.; orange (Fr.) 3 cs., (It.) 4 cs., (U.S.) 5 cs.; patchouli (Straits), 5 cs.; peppermint (Jp.) 255 cs., (U.S.) 1 cs.; petitgrain (Fr.), 1 cs.; pine (Germ.), 1 cs.; spearmint (U.S.), 2 cs.; thyme (Germ.), 1 cs.; valerian (Jp.), 1 cs.; vetivert (Fr.), 1 cs.; various (Fr.) 22 cs., (It.) 4 cs., (Cz. Slov.) 1 cs.

Pharmaceutical Chemicals, etc.

The market continues quite steady, with competition for business very keen. This feature, which has been prominent for a lengthy period, is being gradually overcome by the formation of Continental syndicates. Competition between British makers and importers, however, is still acute. Business has been fairly good, but some of the seasonal products, such as citric acid, seem to be unusually quiet and cheap. Quinine is to be reduced by makers next week.

ACETANILIDE is steady, with most spot offers of B.P. crystals and powder at about 1s. 7d. per lb.

AMIDOPYRIN is quoted by importers at about 12s. 6d. and upwards, with the demand small.

ASPIRIN.—A good trade in the recognised brands continues, with prices steady in the region of 2s. 4d. to 2s. 5d. per lb., according to quantity.

BARBITONE is quoted at about 9s. 3d. per lb. on a dull market.

BENZALDEHYDE (.03) is in very little request; importers quote at about 2s. 3d. per lb.

BENZOIC ACID (B.P.).—British makers continue to quote at 2s. to 2s. 3d. per lb., ex works. Continental, practically free from chlorine, is 3s. to 3s. 3d. per lb., spot, in small lots.

BENZONAPHTHOL is steady but quiet, with five-kilo lots offered at 3s. 3d. per lb.

BROMIDES.—The recent slight improvement in business is maintained and prices are very steady: ammonium, about 2s. 2d. per lb.; potassium, B.P. crystals and granular, 1s. 8 $\frac{1}{2}$ d. to 1s. 9d. per lb.; sodium, B.P. crystals and granular, 1s. 10d. to 1s. 11d. per lb.

CALCIUM LACTATE has been moving fairly well at cheap prices for quantities; quoted from 1s. 3d. to 1s. 4d. per lb., according to quantity.

CHLORAL HYDRATE is steady with the usual flow of small orders. Duty-paid crystals is quoted from 3s. 3 $\frac{1}{4}$ d. to 3s. 3 $\frac{3}{4}$ d. per lb.

CITRIC ACID (B.P. crystals).—A little movement is reported, but the market is still quiet for the time of year and the tone is depressed. Cheap offers are still on the market: spot, 1s. 3d. to 1s. 3 $\frac{1}{2}$ d. per lb., less 5 per cent.

CREOSOTE (B.P.) is offered by importers at about 1s. 10d. per lb. Business quiet.

CREOSOTE CARBONATE is quiet but steady at about 6s. 3d. to 6s. 6d. per lb.

GUAIACOL CARBONATE is well maintained at the quoted price of about 7s. 9d. and upwards per lb.

HELIOTROPINE has been in good demand, with fair sales at the lower price of 4s. 9d. per lb.

HEXAMINE continues in fair demand with competition keen: quoted from 2s. 4d. to 2s. 6d. per lb.

HYDROQUINONE seems steadier, with prices ranging from 4s. 7d. to 4s. 11d. per lb., according to quantity; business has been moderate.

LACTIC ACID (B.P.).—Quantities might be obtained at about 2s. 3 $\frac{1}{2}$ d., and smaller lots at 2s. 4d. per lb. Technical, 50 per cent. by weight, £41 per ton, net.

METHYL SALICYLATE has been moving well, with prices at about 1s. 5 $\frac{1}{4}$ d. to 1s. 5 $\frac{1}{2}$ d. per lb., in demijohns; small lots in bottles, 1s. 10d. per lb.

METHYL SULPHONAL remain dull, with dealers' prices about 16s per lb.

PARA-FORMALDEHYDE has been moving fairly well with a better tone; dealers' prices are quoted at 1s. 8 $\frac{1}{2}$ d. to 1s. 9d. per lb., according to quantity.

PARALDEHYDE is steady on a quiet market at from 1s. 2d. to 1s. 4d. per lb., according to quantity and packing.

PHENACETIN shows no change at about 4s. to 4s. 2d. per lb.; business fair.

PHENAZONE continues in moderate request at from 5s. 11d. to 6s. 1d. per lb., according to quantity.

PHENOLPHTHALEIN shows no change, with a small business moving at about 4s. 2d. per lb. for one-cwt. lots.

POTASSIUM PERMANGANATE (B.P.).—Dealers' prices are very keen for good business; five-cwt. lots in drums quoted at 6 $\frac{3}{4}$ d. per lb.; smaller lots at about 7d. per lb.

POTASSIUM SULPHOGUAIACOLATE is very quiet at about 5s. 3d. to 5s. 6d. per lb.

QUININE.—It can definitely be stated that the Dutch makers have decided upon a drastic reduction in the price of quinine, particulars about which will be announced in our next issue. The Japanese makers will follow to the same extent. Rumours have been current that the amount of the decline will be 6d. per oz., but this is not official.

RESORCIN seems slightly firmer again this week, with little offered under 5s. 3d. per lb.

SALICYLIC ACID (B.P.).—Dealers' quoted prices continue at about 1s. 3 $\frac{1}{4}$ d. to 1s. 4d. per lb., and a shade less for large orders. British makers' prices unchanged at 1s. 3d. to 1s. 5d. per lb., ex works; technical, 10 $\frac{1}{4}$ d. to 10 $\frac{3}{4}$ d. per lb.

SALOL is steady at about 3s. 3d. per lb.

SODIUM BENZOATE (B.P.) has been moving in fair quantities, with prices from 1s. 7 $\frac{1}{2}$ d. to 1s. 8d. per lb. for quantities.

SODIUM DIETHYLBARBITURATE remains flat at about 10s. 6d. per lb.

SODIUM SALICYLATE (B.P.).—Competition continues keen with a fair amount of business being done. Dealers quote crystals at 1s. 9 $\frac{1}{2}$ d. to 1s. 11d., and powder at

1s. 9½d. to 1s. 10½d. per lb., according to quantity. British makers' prices unchanged at 1s. 9d. to 1s. 11d. for powder and 1s. 10d. to 1s. 11d. for crystals per lb., ex works.

SULPHONAL is still sluggish at 11s. to 11s. 3d. per lb.

TANNIC ACID.—B.P. leviss has been in occasional small demand with quantities at 2s. 8½d. per lb. in cases; small lots at 2s. 11d. per lb.

TARTAR EMETIC is very quiet. Dealers quote technical, 43 to 44 per cent., at 11½d. to 11½d. per lb., to arrive; B.P., 1s. 10d. per lb.

TARTARIC ACID (B.P. crystals) meet with a poor call and prices of foreign remain at the low levels of 11½d. to 11½d. per lb., less 5 per cent.

TERPIN HYDRATE.—Some very cheap offers for quantities are on the market, but the demand is, as usual, very small; quoted at about 1s. 8d. per lb.

THYMOL has been in fair request, with prices for fine white B.P. about 12s. and upwards per lb.

VANILLIN (100 per cent. from cloves).—Business has been limited of late, but prices are steady in the region of 21s. 9d. to 22s. 3d. per lb. British make is quoted at about the same rates.

The following prices are also current: Adrenalin, pure natural, 5s. to 6s. per gram; synthetic, 4s. 6d. per gram; ammon. ichthyosulphonate, 1s. 5d. in 1-lb. tins, 1s. 3d. in bulk packages; lecithin ex ovo, 15s. 6d. to 16s. per lb.; silver colloidal, 70 per cent., 71s. per lb.; silver nucleinate, 20 per cent., 25s. per lb.; silver proteinate, 8 per cent., 11s. 6d. per lb.; tannin albuminate, 1s. 9d. per lb.; yohimbine hydrochloride, 13s. 9d. to 14s. per oz.; saccharin, 550, 4s. 3d. per lb., including 1-lb. tins, f.o.b. Continental port for export. Bismuth carbonate, 12s.; subnitrate, 10s. 6d.; subgallate, 9s. 9d.; nitrate, 6s. 8d. per lb. for wholesale quantities only.

Among the imports of chemicals which have paid Key Industry Duty are the following: Aceto-acetate, £950; adrenalin, £727; amidopyrazoline, £490; carbon tetrachloride, £296; cellulose acetate, £790; formic acid, £174; glycerophosphates, £207; isopropyl alcohol, £836; methyl chloride, £119; nickel hydroxide, £799; phenacetin, £457; phenazone, £120; potassium salts, £126; potassium bromide, £255; quinine ethyl carbonate, £580; strychnine, £311; terpinol, £213; vanillin, £568; undescribed chemicals, £4,605.

Industrial Chemicals, etc.

London, April 14.

BEYOND one or two slight alterations in prices there is nothing to comment upon this week. The general tone is steady and there has been a fair flow of small business. The threatened trouble in the coal-mining industry is already having the effect of keeping buyers off the market.

ACETIC ACID is unchanged, but prices are easy and business is not at all good: 80 per cent. pure, £38 15s.; 80 per cent. technical, £37 15s. per ton, in barrels. Glacial, pharmaceutical, 99 to 100 per cent., £66 per ton, in glass demijohns; glacial, in barrels, £55 per ton, ex wharf.

ACETONE is steady but not active: B.G.S. is £80 to £81 per ton, in drums, ex wharf.

ALUM is steady but quiet, with spot lump, in casks, at about £3 15s. per ton; cheaper prices for forward delivery.

AMMONIA (ANHYDROUS).—A further slight reduction in dealers' spot prices is recorded at 1s. 1½d. to 1s. 2d. per lb., in loaned cylinders, carriage paid. Still cheaper prices for contracts. Competition very fierce.

AMMONIUM CHLORIDE shows a further slight fall, with spot offers at about £22 10s. to £23 per ton, in casks, for grey galvanising. Competition is the cause of the cheaper price.

ARSENIC.—American advices regarding prospects are still very poor, while large stocks of calcium arsenate are on hand, the making of which is thus being held down. Several small parcels have been disposed of by the Cornish mines agents lately, again on the basis of £14 per ton, f.o.r., and some sellers are asking £14 5s.

BARIUM CHLORIDE is very firm, with spot supplies scarce: 93 to 100 per cent. prime white crystals, spot, £10 10s. to £10 15s. per ton, in casks. Cheaper prices for July delivery.

BARYTES is moving quite well, with importers quoting at about £3 5s. to £5 15s. per ton, according to quantity and quality.

COPPER SULPHATE.—The export demand has been fair, but manufacturers are keenly competing for business at from £24 10s. down to £24 per ton, f.o.b., for casks, less 5 per cent., while copper is now very cheap.

CREAM OF TARTAR has been in fair demand for forward positions, with prices for 99 to 100 per cent. about 76s. to 77s. per cwt., less 2½ per cent.

EPSON SALT remains quiet, with spot commercial in single bags at £5 2s. 6d. to £5 5s. per ton; cheaper for quantities to come forward.

FORMALDEHYDE is very slow, but quoted prices are unchanged: 40 per cent., by volume, £40 per ton, ex wharf.

GLAUBER'S SALT is steady but not very active: commercial quality, in single bags, spot, £3 12s. 6d. to £3 5s. per ton. Cheaper prices for quantities to arrive.

LEAD PRODUCTS.—Owing to the severe fall in the price of lead last week all quotations for pigments were again revised. Red lead and litharge for the home trade were fixed at £36 for five-ton lots. In regard to white lead in oil, the export quotation f.o.b. was placed at £47, and for dry white lead at £46 15s. There has been a fair demand at the reduced rates, while a sharp rally took place in lead this week. Importers quote: lead acetate, brown, £41 7s. 6d.; white, £42 15s. per ton, spot; imported red lead, about £39, c.i.f. London; dry white lead, £35 10s.; ground in oil, £37, c.i.f. London.

LITHOPONE has been moving quite well at steady prices: 30 per cent. Continental red seal, about £21 5s. per ton, spot; cheaper prices for forward delivery.

OXALIC ACID.—Business is very keenly competed for with the low rates of 3½d. to 3¾d. per lb., according to quantity, ex wharf, being quoted.

POTASH CAUSTIC.—Market continues steady but rather quieter: 88 to 92 per cent. solid, £27 10s., in drums, spot; cheaper prices for contracts to arrive.

POTASSIUM CARBONATE is steady and in fair demand in small lots: spot, 90 to 92 per cent., £24 15s.; 96 to 98 per cent., £26 15s. per ton, in casks. Cheaper prices for forward delivery.

POTASSIUM CHLORATE is steady and moving well, with powder at 3¾d. per lb., in kegs.

POTASSIUM PERMANGANATE.—Commercial quality is a brisk market with competition keen: large parcels offer at 5½d. per lb., in drums.

POTASSIUM PRUSSIAN has been more active, with dealers' prices at 7d. to 7½d. per lb., in casks.

SAL AMMONIAC has been very quiet of late, but prices seem steady: dog-tooth crystals, £30; medium, £28; fine white crystals, £19 10s. per ton, in casks; cheaper to arrive.

SODIUM ACETATE is very scarce for spot delivery and firm at upwards of £20 per ton. Offered for July at cheaper rates.

SODIUM CHLORATE is steady and in good demand, quoted at about 3¼d. per lb., in casks.

SODIUM HYPOSULPHITE has been more inquired for: pea crystals, £14 10s. per ton, in one-cwt. kegs; commercial lump, £9 per ton, in casks, ex wharf. British makers' prices for pure crystals for home consumers, £14 to £15 per ton, according to quantity, delivered to buyer's station.

SODIUM NITRATE is still dull in London, with the price for 96 per cent. at £13 2s. 6d., and refined £13 7s. 6d. per ton, f.o.r. docks, London. Liverpool prices, 2s. 6d. per ton less.

SODIUM NITRITE (100 per cent. basis) is dull for the time of year, with the price in London about £21 per ton, docks.

SODIUM SULPHIDE is more or less idle as quoted by dealers: 60 to 62 per cent. solid, £11 5s.; broken, £12 5s. per ton, in drums, ex wharf.

SULPHUR is very firm, with a steady demand: American refined stands at £5 17s. 6d. delivered Manchester. Refined is dearer, with Sicilian flowers ranging from £12 to £12 5s., and roll £10 to £10 5s., delivered London.

COAL-TAR PRODUCTS, ETC.—This section has been steady all the week, despite the rather poor volume of business on the market. Pitch is unchanged and appears to be steady.

ANILINE OIL is unaltered as offered at about 6½d. per lb., in loaned drums, carriage paid. ANILINE SALT from British makers is quoted at about 7d. per lb., packages extra, carriage paid. Business quiet. BETANAPHTHOL is steady but not moving much: quoted at about 11½d. per lb., carriage paid.

TOLUOL is steady and bright, with pure at 1s. 11d. and commercial 90's at 1s. 8½d. per gallon, f.o.r. works.

XYLOL is a good market, with prices very steady: pure, 3s. to 3s. 3d.; commercial, 2s. 3d. per gallon, f.o.r. works.

CARBOLIC ACID crystals remain flat and at the low levels of 4½d. to 4¾d. per lb., in quantities, f.o.b. CRESYLIC ACID is steadier, but in no great demand: British makers quote pale 97 to 99 per cent. at 1s. 7d. to 1s. 9d. per gallon, ex works.

CREOSOTE OIL is steady but not very active: ex works, 6¾d., f.o.b. 7d. per gallon, in quantities. NAPHTHALENE is dull: imported, flakes, £14 7s. 6d.; powder, £12 5s.; crystals, £11 7s. 6d. per ton, ex wharf.

Pure METHYL ALCOHOL is steady on a quiet market, with one-ton lots at about £47, in drums, ex wharf. Cheaper prices for quantities to arrive.

PYRIDINE is very flat and cheaper at about 17s. 6d. per gallon. PITCH.—There has been no further move in prices and the market seems fairly steady at about 86s. per ton, f.o.b. East Coast.

Fixed Oils, etc.

BUSINESS has been rather brighter this week in the vegetable oils group, and some products show slight advances in prices, with the tone better. American turpentine is very steady, although quiet. Cotton and coconut oils are firmer. ACID OILS are easier, with the market dull: Coconut and palm kernel, 38s. 6d.; groundnut, 34s.; soya, 30s., spot. CASTOR is dull and irregular: pharmaceutical, about 51s.; first pressings, 46s.; second pressings, 43s. per cwt., in barrels, on the spot in not less than one-ton lots. COCONUT is firm, with business moving: deodorised, spot, 51s.; Ceylon, 44s., c.i.f.; Cochin, 54s., c.i.f. COTTON is more active and the tone is now firm: deodorised, 47s.; common edible, 45s.; soap-making, 43s.; crude, 38s. 6d., spot. GROUNDNUT is steadier and more business on the market: deodorised, spot, 52s. 6d.; crude Oriental, 47s., c.i.f. PALM KERNEL is steadier at higher rates: deodorised, 49s.; crude, 47s. per cwt., spot. PALM has been quiet so far this week, but prices show but little change: Lagos, 37s. 9d.; softs, 37s. 3d.; mediums, 38s.; hards, 38s. 9d.; bleached, 40s. 6d., spot. RAPE.—Crude is 6d. per cwt. dearer at 49s., and refined 50s. per cwt., net and naked, ex mill. SOYA is steady and a little more active: deodorised, 44s.; crude, 40s., spot. LINSEED (raw, naked).—Business has not been active, but prices show little change on the week; the tone is fairly steady. On spot, 29s. 3d.; April, 29s. 4½d.; May-August, 29s. 9d.; September-December, 30s.; boiled oil, 32s. 6d., spot. Hull, on spot, 29s. 10½d.; May-August, 30s.; September-December, 30s. 6d. TURPENTINE.—The market firmed up in the latter part of last week under a quietly improving demand, and advanced distinctly on Tuesday, with 64s. actually paid for spot delivery, and on Wednesday 64s. 3d. was paid, May-June is 64s., July-December 60s. The London deliveries last week were very good, amounting to 2,158 barrels, making a total so far for the year of 33,771 barrels, comparing with 27,224 barrels at same date last year, and the stocks were returned at 27,393 barrels, against 19,833 barrels a year ago. RESIN.—There has been but little alteration, and importers were not easier to deal with. American for shipment is quoted from 19s. for B. up to 26s. 1½d. for H.L., and 28s. for K., up to 30s. 9d. for W.W., c.i.f. Spot values are 9d. over these quotations. WOOD.—Hankow, in barrels, is steady on the spot at 60s. 3d. per cwt., and April-May shipment 55s., c.i.f.

LUBRICATING, MINERAL AND BURNING OILS, ETC.—Market continues steady, but business has been on the quiet side. There are no changes of importance to record. BENZOL is steady but not very active: crude 65s., 1s. 3½d.; standard motor, 1s. 8½d.; pure, 1s. 11½d. per gallon, ex works, in tank wagons. FUEL OIL is unchanged and quiet: 890 gravity, £3 17s. 6d.; 950 gravity, £4 7s. 6d. per ton, ex tank. PARAFFIN WAX and SCALE are steady: wax, 3½d. to 5d. per lb., according to melting point, in bags; scale, £26 2s. 6d. per ton, c.i.f. U.K. port. PARAFFIN OILS continue very steady: American standard white, 1s. 1d.; water-white, 1s. 2d. per gallon, barrels free; Russian prime white kerosene, 6½d. to 7d. ex tank, 7½d. buyers' barrels filled free, and 11d. per gallon, barrels free, ex wharf, London. WHITE OILS are unchanged and business is poor: Special No. 1, £28; No. 1, £26 10s.; No. 2, £24 7s. 6d.; No. 3 half-white, £23; No. 4 half-white, about £15 per ton, drums and barrels free, ex wharf. SOLVENT NAPHTHAS are steadier and more in demand: 90 to 160, 1s. 4½d.; heavy 90 to 190, 1s. per gallon. PETROLEUM JELLIES are rather quiet and easy: white to snow-white, £55 to £58; amber and yellow, £18 5s. to £22 10s.; red vet, £15 17s. 6d.; dark stiff green, £15 7s. 6d. per ton, ex wharf, London, barrels free. LUBRICATING OILS are steady on spot but quiet; shipment conditions are unchanged. Spot: pales, £11 to £23 7s. 6d.; reds, £13 to £23 7s. 6d.; dark cylinders, £13 10s. to £34 5s.; filtered cylinders, £21 to £33 15s. per ton, less 2½ per cent., ex wharf, London. SOLUBLE OIL and CUTTING COMPOUNDS, £20 to £29 per ton, net. No. 1 RUSSIAN OIL is very steady at £15 15s. per ton, less 2½ per cent., ex wharf, London.

Russian Ergot

IN 1913 Russia exported 6,000 poods of ergot, valued at 274,000 roubles. In consequence of the increased demand, the crop during the past few years, which amounted on an average to 15 tons, has barely sufficed to cover the requirements of the home market. In 1924, we are informed, a few small parcels were consigned from the U.S.S.R. to London, while a certain amount was shipped to Hamburg. In 1925 no ergot was exported from the territory of the U.S.S.R., with the exception of a small amount sold to Latvia.

Stocks of Drugs in Bond in U.S.A.

ACCORDING to official statistics, the following quantities of imported goods remained in bonded customs warehouses in the United States on January 31, 1926 (amounts in lb.):—

Cinnamon, 386,333; cloves, 627,262; ginger, 51,487; nutmeg, 222,175; pepper, black and white, 2,019,476; vanilla, 176,435; gum arabic, 27,189; camphor, refined and synthetic, 111,368; chicle, 4,362,821; liquorice root, 19,069,432; liquorice extract, 225,265; poppy seed, 197,331; mercury, 141,139; citric acid, 332,773; citrate of calcium, 939,825; medicinal products derived from coal tar, 126,460.

German Wholesalers Combine

THE leading German wholesale dealers in drugs and chemicals have combined to form an association, to be known as the "Reichsverband des Deutschen Drogen- und Chemikalien-Grosshandels." Already over 260 of the largest firms in all parts of Germany have joined the association, which has its headquarters at Dessauerstrasse 26, Berlin W.9. Herr Jüttner, director of J. D. Riedel A.G., Berlin, has been elected president. The Reichsverband is divided into four sections: (1) technical drugs and chemicals; (2) pharmaceutical drugs chemicals and proprietary preparations; (3) asphalt and coal-tar products; (4) colours and varnishes. The members of the Reichsverband will be grouped under one or other of these sections in accordance with their special interests. A board consisting of experts will direct each section; in addition, a special section has been formed to deal with questions relating to imports, exports and customs.

Japan's Chemical Production

FIGURES are now available of the output of the Japanese chemical industry in 1924, and these afford an interesting insight into the wide range of products now manufactured in that country. The list gives particulars of 96 fine chemicals, including the following (amounts in kilos):—

Acetylsalicylic acid ..	1,083	Morphine and diacetyl-	
Acetylannuin ..	4,765	morphine hydrochloride ..	1,818
Atropine sulphate ..	2	Peppermint oil ..	125,300
Bismuth salicylate ..	5,700	Potassium bromide ..	7,800
Bismuth subgallate ..	13,300	Potassium iodide ..	46,300
Bismuth subnitrate ..	72,800	Potassium sulphoguaia-	
Bromine ..	8,700	late ..	360
Caffeine ..	10,600	Protargol ..	63
Caffeine benzoate ..	14,800	Pyrogallol acid ..	1,581
Caffeine citrate ..	14,000	Quinine bisulphate ..	7,300
Caffeine sodio-salicylate ..	516	Quinine di-hydrochloride ..	117
Castor oil ..	73,500	Quinine hydrochloride ..	15,900
Citric acid ..	17,100	Quinine sulphate ..	27,800
Cocaine hydrochloride ..	2,500	Quinine tannate ..	244
Cod-liver oil ..	158,600	Saccharated pepsin ..	34,400
Codine phosphate ..	76	Saccharin ..	23,181
Ether ..	573,700	Salicylic acid ..	52,980
Euquinine ..	2,800	Salol ..	580
Formaldehyde ..	139,700	Salvarsan ..	439
Guaiaac carbonate ..	2,199	Scopolamine hydrobro-	
Hexamethylenetetramine ..	1,953	mide ..	1
Hydrogen peroxide ..	238,200	Silver, colloidal ..	1,700
Iodine ..	31,200	Sodium bromide ..	8,800
Iodoform ..	3,300	Sodium iodide ..	1,600
Lactic acid ..	25,300	Sodium salicylate ..	20,454
Menthol ..	125,600	Strychnine nitrate ..	23
Mercuric chloride ..	42,000	Tannalbin ..	11,700
Mercuric oxide ..	1,400	Theobromine sodio-sali-	
Mercurous chloride ..	5,000	cylate ..	797

Figures of Japan's foreign trade in 1924, and also during the first six months of 1925, were given in the *C. & D.*, August 29, 1925, p. 334, and December 26, 1925, p. 919.

Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday:—

Place	Method of Quoting	Par of Ex-change	April 7	April 14
Amsterdam	Fl. to £	12.107	12.12½—12.12½	12.11½—12.11½
Berlin	M. to £	20.43	20.42—20.42½	20.40½—20.41½
Brussels	Fr. to £	25.22½	124½—124½	129—129½
Bulgaria	Lev. to £	25.22½	660—680	660—680
Calcutta	Per rup.	24d.	17½d.—17½d.	17½d.—17½d.
Constantinople	Pst. to £	110	965—980	975—985
Copenhagen	Kr. to £	18.159	18.57—18.59	18.56—18.60
Greece	Dr. to £	25.22½	372—374	376—381
Hong Kong	T. to \$	—	27d.—27½d.	26½d.—27½d.
Italy	Lire to £	25.22½	120.80—120.90	120.80—120.85
Kobe	Yen	24.58d.	22½d.—22½d.	22½d.—22½d.
Lisbon	Escu.	53½d.	24d.—2½d.	23½d.—23½d.
Madrid	Pes. to £	25.22½	34.38—34.39	34.12—34.14
Montreal	\$ to £	4.86½	4.86½—4.86½	4.85½—4.85½
New York	\$ to £	4.86½	4.86½—4.86½	4.85½—4.86
Oslo	Kr. to £	18.159	22.61—22.64	22.45—22.48
Paris	Fr. to £	25.22½	139.60—139.70	142.05—142.15
Singapore	Per dol.	—	28½d.—28½d.	28d.—28½d.
Stockholm	Kr. to £	18.159	18.13½—18.14½	18.14½—18.15½
Switzerland	Fr. to £	25.22½	25.20—25.21	25.17—25.18
Vienna	Sh. to £	24.02	34.43—34.48	34.43—34.48
Warsaw	Zloty to £	25.22½	38 sellers	40 sellers



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Rates of Profit

SIR,—“Fifer” (*C. & D.*, April 3, p. 507) seems too hasty in his selection of prices considered to be ridiculous. Surely it is such as he who drive customers to our large competitors! Having just dispensed a 3vj. mixture at 1s. 4d. and 3viij. at 1s. 6d., it seemed a coincidence to read his remarks immediately afterwards. Yet I faithfully followed the *C. & D.* Price List (and even stuck 2d. on “for luck”). The 3vj., for example, was: Ferri am. cit. 3j. (= 1d.), glycerin. 3ij. (= 1d.), tr. nucis vom. 3ij. (= 2d.), aq. ad 3vj. Total, 4d. + fee 8d., + container 2d. = 1s. 2d. Irrespective, however, of any costing method, I would say that *locum* work in all parts of England has shown me that in an ordinary middle-class district 1s. 6d. to 1s. 9d. is usually charged for 3viij. tablespoon mixtures without reference to price lists; and if one takes an average page of scripts priced out by the *C. & D.* method it is quite astonishing how many come out below 1s. 6d. (The *C. & D.* “Method 2” rather errs in making dispensing fee the same, whether 3ij. or 3xviij.) The question of prices is always of considerable interest, and especially so to the middle-class suburban chemist, who, with store competition, cannot always feel safe in charging such prices for the common drugs as appear in the *C. & D.* List. My *locum* experience covers counties from Yorkshire to Devon, and the following are average prices, with *C. & D.* prices in brackets:—

Ammon. carb. coml., 1½d. oz. (2d.), 4½d. qtr. (6d.).
Aq. anethi, 1d. oz. (2d.).
Glycerin (pkd.), 3ij., 7½d. (10d.).
Lini sem. contus., 7d. and 8d. (10½d.).
Developing V.P.K., 6d. (8d.).
Lin. camph., 3d. oz. (4d.), 10½d. 4 oz., 3ij. bottles, 8d. (1s.).
Seidlitz pdr., 1½d. or 2d. (3d.).
Solazzi juice, 3½d. oz. (5d.).
S.V.M. coloured, 8d. or 9d. pt. (1s. 1d.).
Pastilles, var., 4d. oz. (5d. and 6d.).

These are by no means cut prices, neither do they show a bad margin. The quicker the turnover the less should be the ratio of profit and vice versa; yet the Price List shows almost exactly the same ratio of profit for the slow-selling stramonium as it does for the quick-selling lin. camph. On the other hand, I never came across anybody selling half-minute lens clinical thermometers as low as 2s. 2d. and 2s. 8d.—Yours truly,

SUBURBAN (13/4).

The Value of a Chemist's Window

SIR,—In commenting on chemists' windows (*C. & D.*, April 3, p. 491), “Xrayser III” remarks that it does not pay to occupy window space with displays of articles that the public know they must come to us for. But do they know it? I very much doubt it; in these days when bazaars and stores, market stalls and street traders, travelling vans and hawkers carry packed drugs and sundries, the chemist's shop is frequently forgotten altogether. Has “Xrayser III” ever encountered the dear lady who, after purchasing a proprietary line showing about three halfpence on fifteenpence, produces a shopping list and sweetly murmurs, “Nothing else, thank you; let me see, borax, glycerin, castor oil; of course, you don't keep those. I shall get them at the grocer's.” This is not an exaggerated picture. The public need constantly reminding that the pharmacy is the proper place to buy drugs and chemicals used for medicinal purposes. So many of the pharmacy windows that we see to-day bear no relation to pharmacy at all; in fact, many of them might well be mistaken for fancy shops or toy shops, and any ordinary man might well pass them by without knowing that there was a chemist there at all. For these reasons I never fail to give due prominence to chemists' lines; it conveys the idea of medicine to the man in the street.—Yours truly,

PHARMACIST FIRST (6/4).

The Draft D.D.A. Regulations

SIR,—Ten years' penal servitude and a fine of £1,000 on indictment, or twelve months' hard labour and a fine of £250 on summary conviction, and in addition the withdrawal of authorisation—what a cheerful outlook for the harassed pharmacist if the proposed Order in Council is passed! Yet this is what he may be liable to if he makes a mistake in dispensing a script for veronal or its derivatives. The published correspondence (*C. & D.*, April 10, p. 539) shows that the Pharmaceutical Society has “got the wind up”; unfortunately it is a little late in the day; we have tamely submitted to so many regulations in recent years that it is not likely that Government departments will pay much heed to our protests now. The reference to medical practitioners will not do us much good, the only effect probably being to antagonise the profession. If this order becomes effective as it stands at present, the only way the individual pharmacist can protect himself against possible consequences is to refuse to have anything to do with scripts containing these drugs at all, unless he knows the prescriber and the patient quite well, and is perfectly sure that everything is in order.—I am, etc.,

CAUTION (10/4).

Labelling of Poisons Order

SIR,—With regard to the Labelling of Poisons Order, there has been a considerable falling off in the sale of household recipes since it came into force, although, as this period has coincided with general slackness of trade, it is a little difficult to judge whether the Order is responsible in any way for the drop. There is no doubt that a multiplicity of orders and regulations defeat their own end by creating an attitude of indifference and sometimes actual carelessness in connection with the very things they are framed to protect, and the habitual use of the word “poison” on so many articles induces people to ignore it; in fact, one customer whom I cautioned as to the use of something he had purchased laughed, and said, “You chemists stick ‘poison’ on everything nowadays, and it is all eyewash.” The general public do not understand that we are compelled to do these things, often against our better judgment, under the risk of heavy penalties.—Faithfully yours,

CONTROLLED (12/4).

Sea-Sickness

SIR,—Extracts from an article on the treatment of sea-sickness (*C. & D.*, April 10, p. 522) lead one to ask if there is any real remedy for this distressing condition. Many preparations have been advocated from time to time; but while one person will claim a certain drug to be infallible, the next will find it of no use at all. The trouble is that many people who have been sea-sick once start on a voyage with the settled idea that they are going to be upset, and when this is the case they are sure to be so; in consequence, the taking of a preventive is frequently only a faith cure. Other persons are ill on every voyage, no matter what they take. One man I knew was the captain of a liner; he was sea-sick the first day out on every trip, and he had tried every remedy, both medicinal and dieting, without success. On the other hand, some persons are never upset; I had never been sea-sick in my life until one day, on a passage of only two or three hours' duration, I was suddenly taken with sickness; as, however, it has never happened since, I put it down to other circumstances than the motion of the boat. Some people are ill even on a short train journey, and I am told that the same thing applies to flying. As indicated in the article, many people find relief from bromides, and if a pharmacist is called upon to recommend something he is quite safe on bromide, one or two doses to be taken before sailing and repeated on the voyage if necessary.—Yours, etc.,

GOOD SAILOR (13/4).

Milk and Emulsions

SIR,—The troubles of other trades need not worry us over much, but I cannot help feeling a little sympathetic in regard to the milkman who ventured on the statement, during the hearing of a recent law case, that it was almost impossible to measure milk accurately from the can. Milk is, we are told, a perfect example of an emulsion; and from our knowledge of fresh emulsions at

the counter it is easy to imagine milk in a condition fresh, new and warm, when a measured pint of it at a later stage, cold and set, would show a shortage. Make a calculated pint of almost any simple emulsion, and, fresh and warm from the mixing, it will take up more space than the bottle affords if this is correct. A few hours later the case is altered; time being allowed for cooling, the pint bottle may be filled, and remains so, until used. If we buy emulsions, we buy them by weight; and I suppose, if accuracy is demanded, milk should also be sold by weight. Milkmen usually measure a pint for one's jug and then add an ounce or so over—which, I take it, is as nearly accurate as can be expected under the conditions. Many times I have deplored—at the dispensing counter—the dose or two left in the mortar for which the bottle afforded no room. In fairness, it would be well in future to suggest the patient drinks it on the spot!—Yours, etc.,

VETERAN (8/4).

The Powers of the General Medical Council

SIR,—The lay Press have, in my view, greatly overdone or overworked their protests on behalf of the late Dr. Aham. It was a foregone conclusion from the first that the General Medical Council would not recede from the position they hold. Indeed, I should imagine this body the last to give way to popular clamour. There are two facts that emerge from all this. No body of professional men dislike quackery or illegitimate practice more bitterly than do doctors. On the other hand, all over the country we know of more or less illegitimate practice which exists only because of the leniency of the Legislature. Lawyers take good care to keep poachers off their own preserves, though in connection with other professions they are not so particular. There have been, no doubt, cases of hardship from the removal of a name from the medical register. This action of the General Medical Council means that the delinquent may no longer sign a death certificate. Now if this is the case it is a matter that could (one would think) be easily set right. An appeal might be allowed, say, to some eminent legal authority; there would not be many, but an appeal there should be. But what a pity we have no General Pharmaceutical Council of equal powers!—Yours, etc.,

LOOKER-ON (13/4).

Loss on Insurance Dispensing

SIR,—First of all, allow us to thank all those chemists who have taken the trouble to write expressing their views on the above. The balance of opinion tends to show that, while it cannot be regarded as yielding a reasonable profit, it does yield some, and that it is our duty for the time being to hang on while doing the work to the best of our ability and in accordance with the highest traditions of pharmacy. There are two more items we should like to mention. The first is that of overhead charges. Vary they must in amount, but whatever their variation they exist in every business, and comprise rent, rates, taxes, insurance, stationery, advertising, carriage, salaries, light, heat, pricing scripts; and the total of these charges divided by the number of customers (including panel patients) served gives us the cost of serving each, whether it takes one assistant or a combination of the whole staff. Our total overhead charges for the year ended June 30, 1925, were £642, 16s., and this divided by the number of customers (93,998) gives us a net cost of individual service of 1.64d., which makes "some" hole in the dispensing fee of average 4.5d. The second point. In our first letter we mentioned that our average customer sale was 10.0d., and pointed out what would be lost supposing every patient spent this and subsequently went elsewhere. During this March we have carried out a special record of counter sales with special reference to direct sales to panel patients. Out of 778 patients, 34 spent between them £1 6s. 11d., an average of 9.5d. each. In conclusion, let us fill our windows with reliable paying lines, develop our own "preps.," and keep our powder dry.—Yours truly,

PERPLEXED (6/4).

Legal Queries

B. W. (13/4).—Head and Nerve Powder is not a title that involves liability to medicine-stamp duty. The directions on the label you send do not recommend the article for any ailment.

Mortan.—An unqualified person can call his place of business a pharmacy, but the practice is not free from risk, as it might be evidence that he is carrying on the "business of a chemist and druggist," which is reserved by the Pharmacy Acts to qualified persons.

Doubtful (10/4).—A limited company carrying on the business of a chemist and druggist as laid down in the Poisons and Pharmacy Act, 1908, can make a contract with an Insurance Committee for dispensing medicines for insured persons.

J. W. B. (6/4).—A doctor's surgery may be supplied with "dangerous" drugs on a written order signed by the doctor; the order must be kept for two years by the chemist, and entered in the poisons book and Dangerous Drugs Act register. In place of signature in the poisons book, enter "signed order." No licence is required; the transaction is covered by the general authorisation.

J. N. L. (7/4).—There is no published list of medicinal preparations upon which spirit rebate is allowed. The articles are, however, mostly those official preparations which cannot be used as a beverage. For example, rebate is not allowed on tr. aurant. and spt. menth. pip. The authorities will strike out of your spirit stock book those items upon which rebate will not be allowed.

R. V. (5/4).—(1) A widow of a chemist can carry on the business of a chemist and druggist as long as she conducts it with a qualified manager, as required by the Pharmacy Acts. (2) There is no need to convert it into a limited company unless there are other reasons for doing this. (3) The method of forming limited companies is given in the *C. & D. Diary*, 1926, p. 299, and in the *C. & D. Diary*, 1925, there was a fuller treatise on this subject.

N. C. C. (10/4).—We register formulas each year in *The Chemist and Druggist Diary* in accordance with the concession made by the Board of Customs and Excise for publication of these as "known, admitted and approved" remedies under the Medicine Stamp Act. The titles and formulas must be disclosed. The next occasion will be in the *C. & D. Diary*, 1927, and we shall be open to receive formulas in September. A notice to that effect will be given in the *C. & D.*

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics

Faulty Test Tubes

What is the matter with the glass test-tube of to-day? When half filled with distilled water, three of them, one after the other, when heated in the bunsen flame, cracked and the lower portion separated in the form of a glass thimble about the depth of half an inch.—*Abel Scholar*.

The Pin-hole Disc

G. Y. (12/4), referring to this subject in the *C. & D.*, April 10, p. 545, points out that, although the pin-hole disc indicates advanced ocular disease, it is valueless in early disease where retinal degeneration at the macula has not commenced. In optic neuritis vision often does not suffer, and symptoms may be entirely absent until optic atrophy sets in, when it is too late to save the eye. So with many other diseases. Every optician must exclude ocular disease before supplying "glasses." The ophthalmoscope and the perimeter are necessary instruments. The Minister of Health may consider the claims of opticians when every optical body demands the intelligent use of these essential aids to diagnosis by all its members.

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Cymro (27/3).—We have suggested the use of liq. amm. acet. conc. for removing the lead sulphate from sulphated accumulators with the knowledge that this liquid is a good solvent of lead from shop rounds. It is not, however, practical to employ this, nor is there, so far as we are aware, any other chemical method.

J. R. B. (27/3).—(1) SCOTCH SODA is washing soda made at Scottish alkali works, which at one time had the reputation of being superior to that made elsewhere. (2) Dionin is not a drug the sale of which is regulated by the Dangerous Drugs Acts, but it is a poison within Part I of the Poisons Schedule of the Pharmacy Acts.

E. G. (29/3).—The price on the *C. & D.* costing system of the 3x. mixture, which you state was charged by a historic dispensing house at 1s. 6d., is 2s. 9d.

Scotia (29/3).—BUSINESS VALUATION.—The price for your business will turn on whether you can use the average figures of five years' profits or only three. The point is material. You mention that no rent is charged in the balance-sheet, which inflates it by that amount. It would appear from the figures that the value would be three years' net profits, not the income-tax returns, but the amount accruing from the investment, to which should be added the value of stock and fixtures. From this amount deduct the rental value. The figure will then be shown, but the proprietary article you refer to has a value which should be made use of in negotiations. Apart from any goodwill the business is worth about £3,200.

B. L. F. (30/3).—BUSINESS VALUATION.—The particulars you give for forming a satisfactory opinion are incomplete. A basis may be taken in this case of three times the true net profit, plus current valuation of stock and fixtures and any other increment calculated to produce goodwill.

F. H. P. (31/3).—A good quality glue would be suitable for affixing the ointment tins to a showcard. The kind used by bookbinders has a flexibility that seems adapted for this purpose.

M. J. H. (31/3).—BOOKS ON CONFECTIONERY MAKING.—See *C. & D.*, February 27, p. 318. A good list of harmless aniline colours was given in the *C. & D.*, September 20, 1924, p. 438.

P. F. (31/3).—FLOWERS OF SULPHUR, if for human consumption, should conform to the requirements of the British Pharmacopœia, in which the limits are fixed for arsenic, acidity and residue after burning. Each consignment should be sampled and analysed, as it could not be guaranteed to comply with the B.P. standards unless it had been especially tested.

D. F. D. (1/4).—The drugs used for increasing the aperient properties of compound syrup of figs are ext. sennæ liq., ext. cascara liq., syr. rhei, and ext. jalapæ liq. As the preparation is given to very young children, it is not desirable that it should possess exceptional evacuant properties.

J. M. (1/4).—MEDICINES FOR MONKEYS.—In the treatment of monkeys the same medicines and doses, weight for weight, as given to dogs can be prescribed. For worms, the following is a moderate dose, which can be increased or repeated if necessary:—

Santonini gr. j.—iiij.
Pulv. arceæ 3j.—jss.

This should be given after fasting, and followed by an aperient, such as ol. ricini 3ij.

J. M. (1/4).—COLOURING EARTHWORMS.—It requires a trace of red aniline dye to colour the earthworms as suggested. A little red ink would probably answer the purpose.

D. O. M. (3/4).—FERTILISERS.—See *C. & D.*, March 7, 1925 (p. 366), April 11, 1925 (p. 558), and March 27 (p. 474).

W. Ch. (2/4).—CHICKEN CHOLERA.—This is an acute form of diarrhœa and is seldom cured. When it is first seen, isolate the affected birds and change the healthy ones to clean ground, giving plenty of dry food. Try the following remedy: Give five or six drops of chlorodyne in castor oil, and, if required, tincture of kino or catechu in doses according to size and age of the bird. Mix a wineglassful of brandy in a cupful of warm water, add a little sugar, and give a teaspoonful every four hours.

Serum (6/4).—WINE FLAVOUR can be communicated to a mixture by the addition of small amounts of oil of cognac and ethyl œanthate. Wine essences are compounded with these and other ingredients such as elder flower tincture, amyl valerianate, heliotropin, vanillin and ethyl acetate.

W. E. H. (6/4).—LIQUID FLOOR POLISH:—

Crude terebene ...	20 parts
Camphor oil ...	5 parts
Linseed oil ...	70 parts
Paraffin oil ...	5 parts

W. S. (6/4).—PARATHYROID GLAND is usually given in doses of $\frac{1}{8}$ grain, either once or twice a day. If only one dose, this is administered at night, otherwise a dose is given morning and night.

L. M. C. (7/4).—PAYMENT OF APPRENTICES.—The custom regarding payment of apprentices varies in different parts of the country, and usually according to the style of business. In a business where salesmanship is of paramount interest there is no premium, and a wage of 10s. weekly is paid, rising by 5s. weekly in the second and third year. On the other hand, where the business conducted is mainly pharmacy and training in this actually takes place, a premium from £20 to £40 is often asked, and a wage is not paid until the second and third year, when it would be on the basis of 10s. and 15s. respectively per week. Apprentices nowadays usually live out.

J. C. (7/4).—TOBACCO FLAVOURS.—The following are examples of the flavourings used for tobacco:—

Gold Flake

I		II	
Oil of rose ...	1 part	Coumarin ...	50 parts
Oil of bergamot ...	5 parts	Vanillin ...	20 parts
Oil of cloves ...	6 parts	Cassia oil,	
Oil of lavender ...	11 parts	Clove oil, of each	100 parts
Oil of sandal ...	4 parts	Otto of rose ...	30 parts
Tincture of ambergris ...	20 parts	Valerian oil,	
Tincture of musk ...	20 parts	Cascarilla oil,	
Tincture of civet ...	5 parts	of each	50 parts
Tincture of benzoin	5 parts	Nutmeg oil ...	100 parts
Tincture of vanilla	20 parts	Tincture of benzoin	500 parts
Tincture of turmeric	23 parts		

The second formula is from W. A. Poucher's "Perfumes, Cosmetics and Soap," Vol. II, where a short chapter is given on tobacco flavours.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," April 15, 1876

Paregoric Elixir—Sine Opio

SIR,—Seeing some Winchester pint bottles labelled as above in a shop in the North of England, it occurred to me that this name was strangely paradoxical. It is well known that paregoric elixir is the English household word for our Latin tinct. camph. co. This being the case, surely no chemist is correct in calling a preparation that does not contain the opium by that name. The reason for this is obviously to enable the unregistered shopkeeper to sell it as paregoric. I am informed that this article is manufactured and sold in large quantities by many of the North Country wholesale druggists, a label of which I enclose, received from one of them. The mischief of this false trading is in the injury it does to the retail chemist, who certainly has enough to contend with in these days of co-operative store prices and grocers and others selling patent medicines at ruinously reduced prices, thus seriously lessening his returns, without such preparations being vended by the wholesale trade with the object of placing an article in the hands of grocers and shopkeepers that legitimately should be sold by the chemist only.

Respectfully yours,
CHAS. TROKE.



[Commenced C. & D., July 5, 1924]

Federated Malay States.—The Federation of the four states of Perak, Selangor, Negri Sembilan, and Pahang was created in 1909, since when all legislation common to the four states is enacted by the Federal Council, but the Council of each state continues to legislate for matters peculiar to its own state. The Sale of Food and Drugs Enactment, No. 9 of 1913, defines a drug as meaning any substance or mixture of substances used by man as a medicine, whether internally or externally, including anæsthetics. It is an offence: (1) To sell any adulterated drug without fully informing the purchaser at the time of the sale of the nature of the adulteration, unless the package in which it is sold has conspicuously printed thereon a true description of the composition of the drug; (2) to sell any drug in any package which bears or has attached thereto any false or misleading statement, word, brand, label, or mark purporting to indicate the nature, quality, strength, purity, composition, weight, origin, age, or proportion of the article contained in the package or of any ingredient thereof. A food or drug shall be deemed to be adulterated if (1) It contains or is mixed or diluted with any substance which diminishes in any manner its nutritive or other beneficial properties, or which in any other manner operates to the prejudice or disadvantage of the purchaser or consumer; (2) any substance or ingredient has been extracted or omitted therefrom to the prejudice of the purchaser; (3) it contains or is mixed or diluted with any substance of lower commercial value. The Poisons Enactment, No. 15 of 1911, stipulates that persons offering for sale any scheduled poisons must be in possession of a personal licence, valid for the current year only (fee \$20.00), issued by the principal medical officer, or any medical officer appointed by him. The Chief Secretary to the Government may exempt from the operation of this Enactment, *inter alia*, any mixture or preparation (not being itself a poison) which contains one or more poisons, but in so small a proportion as not to be dangerous to human life, and also any patent medicine or other proprietary article, subject to such conditions and limitations as the Chief Secretary may think fit to impose. The Deleterious Drugs Enactment, as amended in 1925, covers morphine, cocaine, eucaine, ecgonine, heroin and their salts, medicinal opium and any preparation containing not less than one-fifth per cent. of morphine or one-tenth per cent. of cocaine, eucaine, ecgonine, or heroin. In addition, the Chief Secretary to the Government is empowered to include within the provisions of this Enactment any drug or any salt or solution of any such drug by notification in the Government Gazette. The exclusive right of importing and of exporting deleterious drugs and syringes is vested in the principal medical officer. Any licensed medical practitioner or licensed chemist and druggist may deliver in duplicate to the principal medical officer for transmission to any person or firm outside the Federated Malay States a written order to forward to the principal medical officer at the cost of and for the use of such licensed medical practitioner or chemist and druggist, deleterious drugs and syringes as specified in the order. On the receipt by the principal medical officer of the package sent in compliance with the order forwarded as above, he may before delivery to the person for whom it is intended open the package and examine the contents. Medical practitioners, veterinary surgeons, and chemists and druggists have to obtain an annual licence, valid for the year in which it is issued, and for which a fee of 20 dollars is charged, to possess, use and sell deleterious drugs and syringes. Lists of licensees are

published yearly in the Government Gazette. Registers have to be kept, in English, showing full particulars of all deleterious drugs purchased, sold and in stock. No person other than a licence holder may have in his possession any deleterious drug in quantity exceeding twelve official doses, or any mixture adapted for swallowing, or injecting, containing one or more deleterious drugs in quantity exceeding in the aggregate twelve official doses. A chemist and druggist is defined as a person holding a certificate of competent skill and knowledge granted under the provisions of any repealed enactments, or of a certificate granted by the Council of the Straits Settlements and Federated Malay States Government School, or by any legally constituted pharmaceutical authorities of any country as may to the Chief Secretary seem fitting: provided always that no certificate shall be deemed sufficient which has been granted to the holder without examination or which he has obtained without first having received a systematic training as a chemist and druggist. Still wines (including medicated wines) not exceeding 42 per cent. of proof spirit pay import duty at the rate of \$3.00 per gallon.

Federation of British Industries was established in 1916, the first President and virtual founder being Mr. Dudley Docker, industrialist and financier. It is claimed to be the largest industrial organisation in the world; besides including all the most important trade associations (over 170 in number), its total direct and indirect membership numbers over 18,000 manufacturing establishments. The home organisation is at 39 St. James's Street, London, S.W.1, while there are sixteen district offices in the principal industrial centres. Abroad the Federation maintains representatives in forty-six different countries, through whom it is in close touch with commercial conditions the world over. The Federation has followed two main paths of development since its inception: (1) To represent and to speak on behalf of British industry at home; (2) to take every opportunity to increase the sale of British products at home and overseas. In order to do this the Federation is organised geographically and industrially, so that it can readily obtain the views of all manufacturers in one district or any one trade throughout the country, while at the head office expert departments watch all phases of the national economic life and are ready to take action as occasion demands. Overseas the Federation seeks to encourage the sale of British goods by acting as a clearing house for trade information or inquiries; by undertaking collective propaganda on behalf of its members either at trade exhibitions abroad organised by itself or held under other auspices; by helping firms in their relations with foreign governments; and generally by bringing overseas buyers and home producers into direct touch with one another.

Federation of Medical and Allied Services, Inc.—Formed in 1919, under the title "Federation of Medical and Allied Societies," as the outcome of a "Medical Parliamentary Committee." It was explained, at a conference called immediately after the formation of the Federation that it "marked for the first time in the history of medicine the combination of the three sides of medicine—namely, practitioners, nurses, and pharmaceutical chemists." Extended explanations of the Federation's functions have since been given. The Pharmaceutical Society of Great Britain is among the affiliated bodies. Secretary, Mr. N. Howard Mummery, M.R.C.S., L.R.C.P., 12 Stratford Place, London, W.1.

Feeding-bottles.—To be satisfactory, a feeding-bottle must be of simple construction, easily cleaned, and the milk must flow without great effort on the part of the infant. It is because the boat-shaped bottle with an identical opening at either end fulfils these conditions that it is in almost universal use to-day; the demand for its predecessors, the boat shape with the screw stopper and the syphon type, best known as the Alexandra, is negligible by comparison. Though feeding bottles have been in use from the earliest times, the form in which they are known to-day may be said to date from about 1858, when Mr. E. O'Connell invented a glass bottle in which the milk was drawn up through

The C.&D. Commercial Compendium

an indiarubber tube. The patent was subsequently acquired by the late Mr. Charles Maw. Improvements soon followed, particularly in connection with the cap which fitted over the neck of the bottle. In the Alexandra, the cap was made to screw on, while another notable form of attachment was the bayonet catch of Lynch & Son. The cap, usually metal, later became a stopper made of earthenware or wood with a cork lining, or the ordinary cork with a boxwood top. These were all unsatisfactory, as milk lodged round the cork and became sour. The glass screw stopper was invented in 1873 by Mr. J. S. Shaw, of Leeds, and this in conjunction with the Alexandra or "old fashioned" boat shape bottle remained in use until recent years, being ousted by the previously mentioned type in which the teat and valve fit either end. The bottles usually hold eight ounces of milk, and are graduated in ounces and tablespoonfuls. The teat used on these bottles is much larger and when stretched over the end of the bottle more nearly resembles that of the breast than the old type. The valve is also made of indiarubber. Some customers find a difficulty in attaching the teat and valve to the bottle, but there is no trouble if they are sterilised before use (*see* Feeding-bottles, Cleaning) and attached while the india-rubber is hot and more elastic.

Feeding-bottles, Cleaning.—When new and after using feeding bottles should be well washed in soapy water, rinsed in plain water, and stored in boiled water until again required, the mouth of the vessel in which they are placed being covered with muslin or other protective. Each day, and before being used for the first time, the bottles should be sterilised, usually by boiling. The teats and valves should be rubbed with salt after use, washed, and dipped for a moment in boiling water before being used again.

Feeding-bottles, Tubes Condemned.—The outer tube is always made of indiarubber, which extends through a hole in the stopper either to the bottom of the bottle, or it is joined just below the stopper to a glass tube which extends to the bottom of the bottle. Various objections have been lodged from time to time against the use of tubes, and several troubles have been overcome by devices in the manufacture (such as by insertion of a valve or an alteration in the shape of the bottle), but they were always condemned by chemists owing to the difficulty of keeping them clean. It is to that cause much infantile diarrhoea has been attributed, and eventually the medical profession recognised that such feeders were not hygienic, as did the general public, with the result that the type of bottle requiring a tube is now in quite small demand, mainly in country districts.

Feeding-Staffs.—*See* Fertilisers and Feeding-Staffs.

Fees, Barristers.—In theory, a barrister gives his services gratuitously, consequently he has no legal redress if his fees are not paid. In practice, a barrister accepts instructions only from a solicitor, to whom he looks for payment of his fees. There is no fixed scale upon which barristers are remunerated. The amount of the fee paid for an opinion or marked upon a brief varies according to the eminence of the barrister and the complexity of the case. The fees may be anything from a couple of guineas to a couple of hundred guineas or more. A barrister who is engaged in a case which lasts more than one day is usually paid, in addition to the fee marked upon the brief, a "refresher" for each day after the first which the hearing of the case occupies. Besides the fee payable to the barrister, there is a small additional charge known as the "clerk's fee," the amount of which varies according to a fixed scale, in proportion to the amount of the principal fee. When two counsel are engaged on behalf of the same party the fee payable to the "junior" is, as a rule, two-thirds of that paid to the "leader."

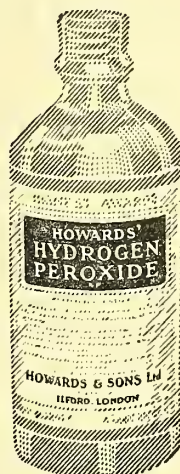
Fees, Medical.—*See* Doctors' Fees.

Fees, Solicitors.—The Solicitors' Remuneration Act, 1881, and the Orders made thereunder fix the fees which a solicitor is entitled to charge in non-contentious matters, such as sales and purchases of property, mortgages, leases and other transactions which are not connected with any action in a court. For conveyancing (q.v.) work, the mode of remuneration may be either a lump sum based upon a definite scale, irrespective of the amount of work done, or a separate charge may be made for each item. Unless before undertaking the work the solicitor gives written notice to his client that he elects to be paid upon the latter basis, he must accept the scale fee. When acting in connection with a sale, purchase or mortgage of freehold or leasehold property the scale charge is an amount calculated *ad valorem* upon the price of the property or the amount of the loan. For negotiating a sale or purchase by private treaty, or a mortgage, or for acting in connection with a sale by public auction, the scale charge is £1 per cent. on the first £3,000; 10s. per cent. upon each subsequent £100 up to £10,000; and 5s. per cent. above £10,000. In the case of an auction, if the property is not sold only half the fee may be charged. After a sale or a mortgage has been arranged, for deducing or investigating the title to the property and preparing or perusing the conveyance or mortgage deed, the solicitor acting for the vendor, purchaser, mortgagor, or mortgagee may charge: £1 10s. per cent. on the first £1,000; £1 per cent. on the next £2,000; 10s. per cent. on the next £7,000; and 2s. 6d. per cent. above that figure. If the same solicitor acts for more than one party to the same conveyancing transaction, he is entitled to make the full charge in one case and a proportionate charge only in the other. A special scale of fees applies when the property is registered at the Land Registry. The fees chargeable in connection with leases are regulated by the amount of the rent. For preparing the lease and the counterpart the lessor's solicitor is entitled to charge at the rate of £7 10s. per cent. when the rent does not exceed £100, with a minimum charge of £5. If the rent exceeds £100 but does not exceed £500 the charge is £7 10s. on the first £100 and £2 10s. on each subsequent £100 or part of £100. If the rent exceeds £500 the charge is £7 10s. on the first £100, £2 10s. on the next £400, and £1 on each subsequent £100. For perusing the draft lease and completing the transaction the lessee's solicitor gets half the above fees. If, in a case of necessity, any business is carried through in an exceptionally short space of time by special exertion, the solicitor may be allowed a reasonable additional remuneration according to the circumstances. A solicitor is, of course, entitled to charge, in addition to his scale fee, any disbursements made on his client's behalf. Stamp duties are also an extra charge. By an Order made on July 6, 1925, the scale charges mentioned above were all increased by 33½ per cent. For services rendered in connection with an action or proceeding in court—contentious business, as it is usually called—a solicitor is remunerated according to a scale prescribed for the particular court concerned. If one litigant is ordered to pay the costs of another the latter's solicitor's charges are "taxed" by an official of the court, who goes through them item by item to see that they are in accordance with the authorised scale. A solicitor is entitled to sue for fees due to him; but before doing so he must furnish his client with a statement showing in reasonable detail how his charges are arrived at. If a client has reason to believe that he has been overcharged he can have his solicitor's account "taxed."

Fees, Witnesses.—*See* Witnesses' Fees.

Female Mixtures and Female Pills: Sale.—There is a legitimate use for so-called female mixtures or female pills in amenorrhoea. It is important, however, for chemists in business to remember that the Offences Against the Person Act, 1861, is widely drawn, a penalty being attached to the supply of any drug with knowledge that it is to be used for the purpose of procuring miscarriage. *See* Abortifacients and Emmenagogues.

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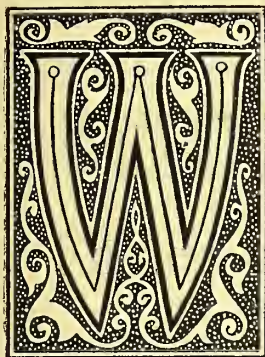
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Daily increasing in popularity among both the medical profession and the public.

Collosol Ferromalt is now supplied in an attractive packing, admirably adapted for counter display.

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REGISTERED
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ANTISEPTIC PROPHYLACTIC TABLETS

Manufactured by (ENGLISH PACKINGS—TUBES OF 12 TABLETS) Sole Agents
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After only one month's advertising, Ipana sales increased nine-fold . . .

And now the weekly sales are nearly thirty times as large as they were last year!



This attractive window card is only one of many attractive pieces which are yours—free—for the asking. Lithographed in 13 colours, it measures 23 ins. wide and 18 ins. deep.

DURING the past six months Ipana Tooth Paste has been making commercial history in one of the most highly competitive branches of the chemist's business.

Little known outside the dental profession when the advertising campaign started in September, 1925, Ipana is now quoted by dentists and doctors as being, commercially, the most promising dentifrice of the present day.

Let its astounding success help to increase *your* profits, too. Forceful advertisements appearing regularly in the popular women's magazines and daily newspapers

will continue to send thousands upon thousands of people to chemists' shops for Ipana. Our attractive show material—which you can have free for the asking—displayed prominently in your window will draw them into *your* shop.

And we want to do even more; we want to help to pay for the window space you give to Ipana.

We offer you three parcels on special display terms. On Parcel Number 1 you will make 74% on your original investment—69% on Number 2—and 65% on Number 3.

Take advantage of these display terms! They will make more and more tooth-paste profits for you. Payment in thirty days. Order from us or from your P.A.T.A. wholesaler.

Bristol-Myers Company, 112, Cheapside, London.

PARCEL No. 1

(6 dozen tubes at a discount of 10% for window display)

The public pays you	£5 8s. 0d.
You pay us . . .	<u>£3 2s. 1d.</u>
Your profit is . . .	£2 5s. 11d. or 74% on your investment

PARCEL No. 2

(3 dozen tubes at a discount of 7½% for window display)

	£2 14s. 0d.
	<u>£1 11s. 11d.</u>
	£1 2s. 1d. or 69% on your investment

PARCEL No. 3

(1 dozen tubes at a discount of 5% for window display)

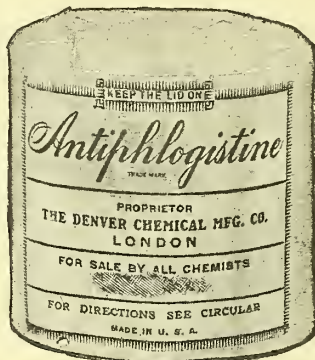
	£0 18s. 0d.
	<u>£0 10s. 11d.</u>
	£0 7s. 1d. or 65% on your investment

The regular price of Ipana to you is 11/6 a dozen. Six dozen would ordinarily cost you £3 9s. 0d.; three dozen £1 14s. 6d.

IPANA

Tooth Paste

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Write for quotation
and secure extra
discounts.

Write for quotation
and secure extra
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HIGGOLENE

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Under its new name and new get-up, but still made strictly according to the original formula, "Higgolene" is to be the object of a National Advertising Campaign which will make its unique qualities known throughout the Country.

It is to be sold at **1/3** per box.

May we send you samples and particulars of the advertising aid which will be available very shortly?

Sole Proprietors:
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ASTHMA CURE

Established
50 years

IT is a powder to be burned and the fumes inhaled without any bad after-effects. Recommended by physicians throughout the world.

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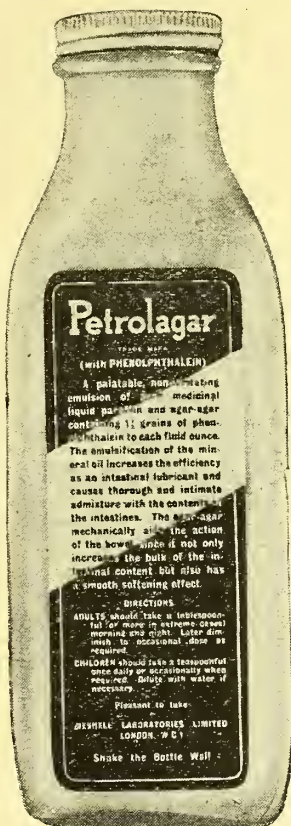
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(trade mark)

DESHELL

A Superior Product of BRITISH MANUFACTURE.

The palatable emulsion of pure medicinal oil and agar-agar
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16 oz. size

5/6

P.A.T.A.

8 oz. size

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Issued in Pound and Half-pound Sizes as follows:

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The Principle of Lubrication and Bulk calls for the usage of Petrolagar Plain in all cases unless special considerations indicate one of the other forms.

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Bleachers of Bandage Cloths, Gauzes,  
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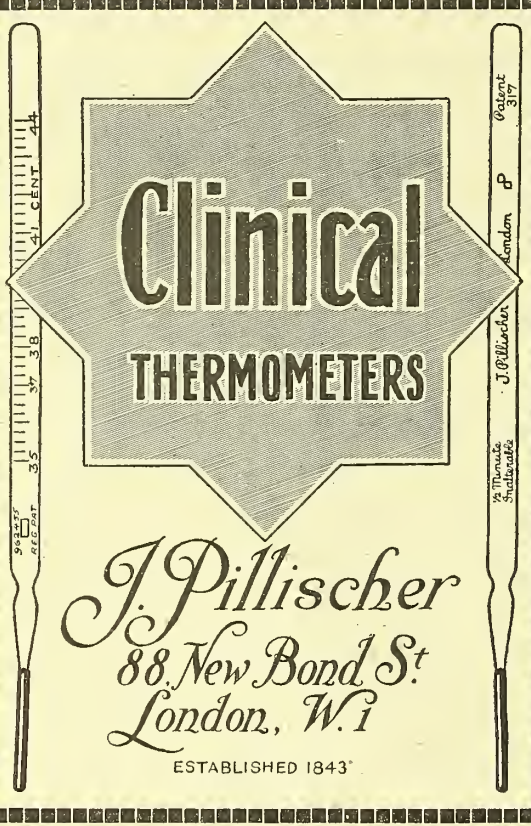
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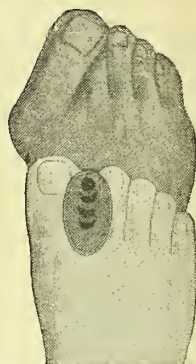
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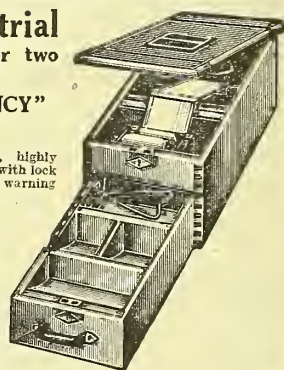
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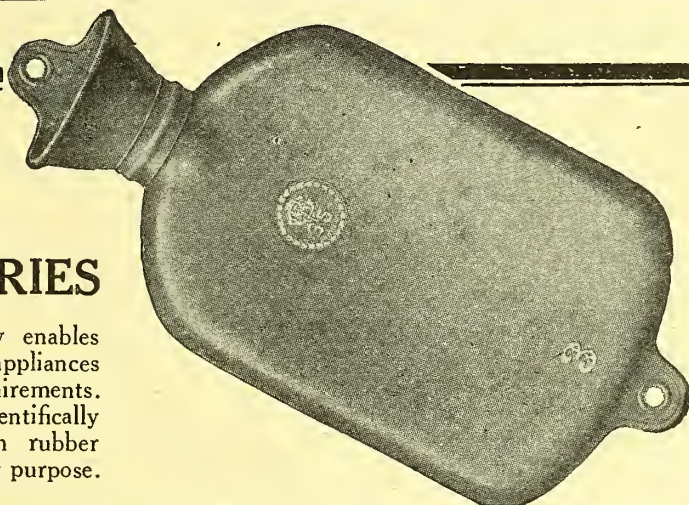
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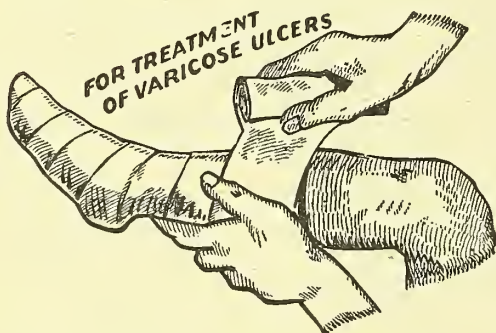
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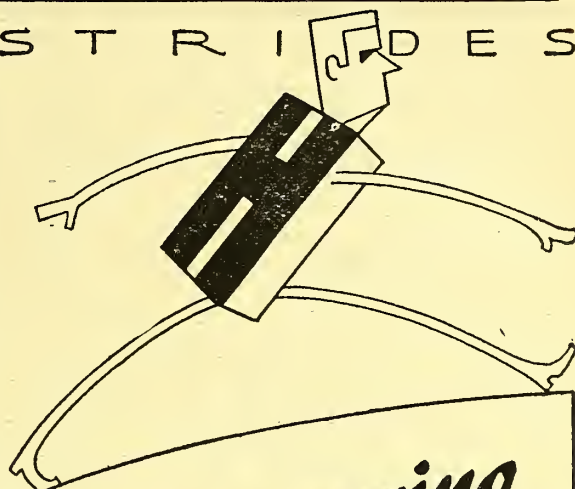
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# THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.  
LONDON E.C. 4

APRIL 17, 1926.

*This Supplement is inserted in every copy of The Chemist & Druggist.*

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The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case the name and full postal address should be written on

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3.—LONDON, W.—Cash Retail Business in shopping thoroughfare; returns, £1,000; net profit, £350; single-fronted lock-up shop; modern window; stock and fixtures estimated at £475; rent, 15s. weekly; price, £600, or near offer.

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  - 10.—DARLINGTON.—For immediate disposal, Retail Cash Pharmacy, established six years; returns, £17 per week; premises consist of lock-up shop and cellar at £70 p.a.; reasonable offer considered for quick sale. (39)
  - 11.—PRESTON (7 Miles From).—Old-established Drug Stores, in present hands 29 years; premises consist of double-fronted shop, 5 store rooms, and yard, with 6-roomed house adjoining; well fitted and excellent stock carried; returns average £18 per week; great scope for qualified man; price, including property, £2,200; further particulars on application. (37)
  - 12.—NORTHUMBERLAND.—Recently established Cash Pharmacy, with Kodak Agency; average takings £14 per week, which can be considerably increased by energetic, qualified man; lock-up shop, well fitted and stocked; rent 8s. weekly; price for quick sale, £650. (36)
  - 13.—LONDON, E.—Suburban Cash Drug Stores, affording good scope to qualified chemist; lock-up shop, nicely fitted, and good stock carried; held on weekly tenancy at £1 8s. 6d. per week; possibility of lease being obtained; returns approximately £18 p.w.; fullest particulars on application. (47)
  - 14.—YORKS.—Well-fitted double-fronted Shop and good living accommodation; three years' lease at £60 per annum; good scope for increase by qualified proprietor; goodwill, stock, fixtures and fittings, £520. (48)
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LONDON, N.W.—Small Business, lock-up shop, in good residential part, ill health reason for selling; only opened short time; price, £450, or reasonable offer. Reference "B."

LONDON, N.—Turnover, £2,750 and 5,000 N.H.I. per annum; net profits, £550; audited accounts; good living accommodation; rent, £110 per annum, with let-off at 15s. per week; price, £1,600, or near offer. Reference "C."

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**SOUTH WALES.**—Well-established Pharmacy, central position in main business road, for immediate disposal; modern fixtures; well stocked; valuable Proprietaries; big trade in Optics and Photography, etc.; living accommodation; premises owner's own; particulars only on bankers' references. "Quercus," c/o British Drug Houses, Ltd., London; Southall Bros. & Barclay, Ltd., Birmingham.

**SOUTH YORKSHIRE (Large Town).**—Business neglected through ill-health; returning at present about £15, plus 100 N.H.I. weekly; tram route; living accommodation; well stocked and fitted; unlimited scope; should double; must sell; best offer secures. 72/1, Office of this Paper.

**STRATFORD, E. (working-class neighbourhood).**—For Sale, genuine Cash Business; returns for the last three years £760 yearly; long lease at the cheap rental of 12s. 6d. weekly; good living accommodation; under permanent qualified management returns and N.H.I. Dispensing could be trebled; returning now £17 weekly, with very few patents; price £300, or near offer. 70/27, Office of this Paper.

**I AM wishing to dispose of my Business,** being in poor health and well on in life; returns about £1,600; quickly increased by enterprising Chemist; no opposition; very easy rent, and electric light in two bedrooms; extra low price for quick sale; worth seeing. Particulars, "Chemist," 55 Beeth Place, Leeds.

**OFFER WANTED.**—Small Chemist's Business, main road, suburb large town; well fitted; possession small house; takings up to £20; rent 16s. 6d. (can let off 15s.); rates 5s.; accept valuation, stock and fixtures, about £375; practically a business without rent; bargain for genuine applicant; reasonable offer accepted; lease granted. 69/1, Office of this Paper.

**£1,250, OR NEAR OFFER.**—South Coast. Sound Business for disposal; takings show steady increase; now approaching £2,000 a year; living accommodation it required; all cash trade; good main road position; no serious opposition; genuine reasons for disposal; net profits about 25%. Replies to 70/26, Office of this Paper.

**£3,000.**—In charming residential section of big Southern city, old-established Retail Dispensing and Photographic Business, showing substantial profits over a long period; every investigation courted; books open to professional accountants; proof of value and all particulars to applicants enclosing banker's reference; no agents. "Trilobite," 71/17, Office of this Paper.



**NOTICE.**

W. H. GIBSON LTD.

**I** THE undersigned Arthur Collins of 28 Baldwin Street Bristol, the Liquidator of W. H. Gibson (Bristol) Ltd. which is in voluntary liquidation much regret that when giving notice in the London Gazette of the 6th November 1925 of a General Meeting of the members of W. H. Gibson (Bristol) Ltd. in connection with such liquidation such Company was inadvertently described as W. H. Gibson Ltd. thereby implying that W. H. Gibson Ltd. was in liquidation which is not the case.

Dated this tenth day of April 1926.

ARTHUR COLLINS,  
Liquidator of W. H. Gibson (Bristol) Ltd.

**BUSINESSES WANTED.**

**B**USINESS or Premises required in good Southern town about August; would entertain Partnership with view to purchase in progressive business. T. R. Milburn, M.P.S., Newcastle-on-Tyne.

**M**ESSRS. BERDOE & FISH are in immediate want of Businesses, and vendors will find it to their advantage to correspond with us, we having at the present time a large number of genuine cash buyers with from £700 to £4,000 at command, and ready to take over at once; private registers kept, and strict privacy assured. Valuation Offices: 41 Argyle Square, King's Cross, W.C.1.

**W**ANTED, a sound, established Business, returning about £3,000 at fair prices; Bristol area preferred; advertiser is well known to the leading Wholesale houses, and all information will be treated confidentially; can wait a few months if necessary and does not wish to purchase property. 73/1, Office of this Paper.

**AGENCIES.**

**A**GEN T wanted, calling on Wholesale and Retail Chemists in the Midland Counties, to sell Corks on commission. State particulars of present line and ground covered. Apply John Deighton & Co., Cork Manufacturers, York

**A**GEN TS wanted to represent manufacturers of first-class India-rubber Hot-water Bottles; special brands; good selling lines; direct to retail; commission basis only. 69/21, Office of this Paper.

**FOR SALE.**

**C**OMPLETE set Second-hand Fittings of small Pharmacy for immediate removal, Dispensing Scales, quantity of Shop Rounds. For full particulars and appointment to view write Fortnam, "Homeleigh," Hillmorton Road, Paddox. Delivery, Rugby.

**F**OR Sale, Alsing Ball Mills (Sillex lined), also Krupp Ball Mill with screens. Write 82/733, Office of this Paper.

**F**OR quick sale, cylindrical, and also "U" shaped, Drying Machines with agitators. Write 82/734, Office of this Paper.

**F**OR Sale, Werner Double Bladed Mixer and Steam Jacketted Copper Boiling Pans. Write 82/735, Office of this Paper.

**F**OR Sale, two Emulsifiers or Whisk Machines, about 9 and 4 gallons capacity; also two Tube Filling Machines. Write 82/736 Office of this Paper.

**F**OR Sale, 12 ft. mahogany Counter, five plate-glass cases in front; two mahogany Wall Fixtures, 4 ft. 6 in. x 6 ft. long, each containing three plate-glass cases, movable shelves; nest Drug Drawers, gold labels, 3 ft. 9 in. x 5 ft. 6 in. long, 42 drawers with fixture, five shelves over; cheap to clear. Reinhardt, 61 York Road, Leeds.

**W**HAT OFFERS?—Beck's Microscope with accessories, suit student; Griffin's Analytical Balance with Weights, another by Ash, Birmingham; all types Glass Apparatus, Hydrometers, etc.; Year Books of Pharmacy, 1870-1916 inclusive; Roscoe's Treatise on Chemistry, Parts 1-5 Organic, 1-3 Inorganic, 1878-1888; Squire's Companion, 1916. Write or call, Manager, Tanner & Co., 350 High Road, Tottenham.

**PREMISES TO LET.**

**D**OWN STREET, MAYFAIR.—Small Shop to be Let; unopposed position; premium for lease. Agents, Tabernacle & Son, 15 Hart Street, W.C., or Defriez-Jones & Jones, 377 Kennington Road.

**CLAIMS.**

Re JANE STARKIE (Widow), deceased.

**N**OTICE is hereby given, pursuant to the Trustee Act 1925; Section 27: that all CREDITORS and other persons having any debts claims or demands upon or against the estate of JANE STARKIE late of 37 Circus Road, St. John's Wood, London, N.W.8. Widow deceased who carried on business under the style of "R. S. Starkie," Chemist, at 7 Grand Hotel Buildings, Trafalgar Square, London, W.C.2, who died on the 7th day of February 1926 and administration of whose estate was granted to Honor Perren of Mowries, Somerton in the County of Somerset, Widow: and Elizabeth Best of Cotham Villa, Somerton, aforesaid wife of Charles Best, on the 10th day of April 1926 by the Principal Probate Registry of His Majesty's High Court of Justice, are hereby required to send particulars in writing of their debts claims or demands to us the undersigned as Solicitors for the said Administratrices, on or before the 30th day of June 1926 AND NOTICE is hereby also given that after that day the said Administratrices will proceed to distribute the assets of the said Jane Starkie deceased amongst the parties entitled thereto having regard only to the debts claims and demands of which they shall then have had notice, and that they will not be liable for the assets, or any part thereof, so distributed, to any person of whose debt, claim or demand they shall not then have had notice.

DATED this 14th day of APRIL 1926.

WOOLLEY &amp; WHITFIELD.

1 Great Winchester Street, London, E.C.2.  
Solicitors for the said Administratrices.

**SITUATIONS OPEN.****RETAIL.****[HOME.]**

**C**ARDIFF.—Wanted, qualified Chemist, lady or gent.; quick and capable both at Counter and Dispensing; obliging manners. State height, age, salary, and enclose photo, references. 70/36, Office of this Paper.

**C**HELMSFORD.—Junior Assistant wanted for good-class business, principally for Dispensing; no Sunday duty; three other assistants on staff. Please give full particulars, stating age, height, experience, etc., and salary required (outdoors), with references. Early Bunn, Ltd., Chemists, Chelmsford.

**C**OVENTRY.—Gentlemanly Assistant for Dispensing and Family business. Particulars as to age, height, experience, and salary required. Chas. H. Welton, 60 Smithford Street.

**D**EVON.—Qualified Dispenser required for modern Pharmacy at seaside. Applicants should be accustomed to brisk business, and are asked to send all particulars in first letter. Apply 71/20, Office of this Paper.

**E**AST COAST.—Junior Assistant wanted for about six months for Dispensing, Retail and Photographic business. State age, height, salary (indoors or outdoors), when disengaged, and names of last employers. 72/2, Office of this Paper.

**E**LIZABETH GARRETT ANDERSON HOSPITAL, Euston Road.—Wanted, qualified Dispenser as Junior Assistant; Hospital Out-Patient experience essential. Applications (by letter only), with testimonials, should be sent to the Secretary before the 23rd April. Imogen H. Murphy, Secretary.

**L**IVERPOOL (near).—Qualified Manager (male) for branch; age 25 to 30; thorough knowledge of good-class Dispensing, Salesmanship, and Photography essential. Apply, stating full particulars, salary, etc., to S. Bastick, Rexall Chemist, 53 Crosby Road North, Waterloo, Liverpool.

**L**IVERPOOL.—Qualified Assistant required, May 3; must be quick and accurate Dispenser and accustomed to a first-class Pharmacy and Family business. Apply, with full particulars, to G. H. Cole, The Pharmacy, Blundellsands.

**L**ONDON.—Lady Assistant (outdoors), mainly for Dispensing. Write, with full particulars of experience, examinations passed, salary required, etc., to Frizell & Co., 1 Cranbourn Street, W.C.2.

**L**ONDON.—Junior Assistant required for N.H.I. Dispensing and Counter. State age, experience and salary required. 72/7, Office of this Paper.

**L**ONDON (Central).—Outdoors; Junior (male), not over 25, for Dispensing and Counter work. Write, with full particulars of experience, salary required, etc., to Frizell & Co., 1 Cranbourn Street, W.C.2.

**L**ONDON.—Qualified Manager required immediately; splendid opening for a really smart man. State age and when at liberty in first letter. 73/5, Office of this Paper.

**L**ONDON, E.—Smart Junior Assistant (male), or an active older man, wanted for a brisk Retail business with N.H.I. Dispensing; must be energetic. A. Rees, Chemist, 152 Mile End Road, E.1.

**L**ONDON, S.—Assistant wanted (male) for Dispensing, Stock, Counter and Windows. In reply, please give full particulars as to age, experience, references, salary, etc., to 71/23, Office of this Paper.



**LONDON (Suburb).**—Young Junior Assistant required at once (gentleman); knowledge of various branches of Retail Trade essential. Full particulars, age, salary and qualifications, to F. W. P., 72/40, Office of this Paper.

**LONDON, S.E.**—Qualified Manager required for small Branch Retail and N.H.I. Businesses; neglected now and scope for energy. Apply, stating age, experience, salary required, references, etc., to 72/33, Office of this Paper.

**LONDON, S.E.**—Smart qualified Manager required shortly. Must have held similar position, for N.H.I. and general business; not under 30; permanency to right man. Please reply, giving full particulars, together with salary required, to 83/747, Office of this Paper.

**MANCHESTER.**—Qualified Manager required for Light Retail and N.H.I. Dispensing business situate in one of the industrial districts; would well suit smart young man (single) who has had experience in a similar business; interest in the profits. 70/31, Office of this Paper.

**MANCHESTER.**—Dispenser and Light Counter; qualified lady or gent. Particulars of experience, when at liberty, and salary required for permanency. Replies to "Chemists," 70/21, Office of this Paper.

**NOTTINGHAM.**—Wanted, capable, qualified Assistant, single, April 26; outdoors; Counter and Dispensing; quick middle-class business. State age, height, salary, enclose photo, full particulars of experience to A. Middleton & Son, Pharmacists, Nottingham.

**ST. HELENS, LANCASHIRE.**—Qualified Manager required for well-established business in the main thoroughfare; Optical experience an advantage; no housing accommodation; this is a splendid opening for a smart and energetic man. 70/310, Office of this Paper.

**SOUTH COAST.**—Wanted, for season or longer, capable Assistant; good Counter and Dispensing experience in high-class Pharmacy essential; state full particulars, age, salary required, experience, etc.; must have good references. Apply 66/7, Office of this Paper.

**SOUTH KENSINGTON.**—Required immediately, a reliable and gentlemanly Assistant, age 27 to 34; must be well recommended as a quick and accurate Dispenser; usual hours and some Sunday duty every fortnight. State details of last three situations held and salary (outdoors). "B. B.," 71/22, Office of this Paper.

**WEST MIDLANDS.**—Required, good all-round Assistant; qualified; able to take charge; must have good Counter and Dispensing experience; permanency, with good prospects of advancement. Enclose photograph and give usual particulars to 73/21, Office of this Paper.

**WESTMINSTER HOSPITAL, Broad Sanctuary, S.W.1.**—Applications are invited for the post of a qualified Assistant Dispenser at a commencing salary of £200 per annum; duties consist partly of Laboratory work. Applications, by letter only, with copies of three recent testimonials, to be sent immediately to the undersigned. By Order of the House Committee, Charles M. Power, Secretary.

**YORKSHIRE Cathedral City.**—Wanted at once, capable Junior; qualified; outdoors; easy hours; no Sundays. Full particulars to 73/8, Office of this Paper.

**CAPABLE Assistant** (with possible view to managership) required for good-class country business; Dispensing, with knowledge of Photographic (D. and P.). Please give age, height, experience and salary required, and state when at liberty. D. Lewis, M.P.S., The Pharmacy, Tisbury, Salisbury.

**ASSISTANT**, qualified, for second or third week in May until first week in October to manage branch; must have good experience in Dispensing, Counter and Photographic. Please state age, experience, and salary required to F. W. Broom, 2 Watersmeet Road, Lynmouth, N. Devon.

**ASSISTANT** required, Dispensing and Light Retail. State full particulars, age, height, salary. Barker Hill, Chemist, Gloucester.

**ASSISTANT** wanted, accustomed to Dispensing. Please state age, experience and salary required. 71/26, Office of this Paper.

**BOOTS THE CHEMISTS** have vacancies for experienced qualified Retail Chemist Assistants. Apply by letter to Boots Pure Drug Co., Ltd., Retail Staff Department, Station Street, Nottingham.

**CAPABLE Assistant** wanted; qualified or unqualified; must be good Dispenser and well up in Kodak Photography. State age, experience, salary required, and when disengaged to Russell, Chemist, Letchworth.

**HEPPELS, LTD.**, require two smart qualified Assistants well up in Counter work. Apply, by letter only, to F. A. Ringer, 16 Grosvenor Place, London, S.W.1.

**HIGHLEY, SALOP** (village over 2,000).—Manager for mixed country business; good Dispenser and Counter essential; man or woman; salary £4 and commission; house available in garden village; moderate rent; easy hours; no Sunday duty. References and when disengaged to Holford Meyer, Rexall Pharmacy, Bridgnorth.

**JUNIOR Assistant** required for about six months, either lady or gentleman; salary (outdoors) £2 10s. weekly. Kindly send photograph or personal call. Wm. Felton, Chemist, 233 and 255 Balls Bond Road, N.1.

**JUNIOR Photographic and Optical Assistant** required; experienced Refractionist, good Salesman, able to superintend D. & P. department. Apply, with full particulars, age, experience, salary required (outdoors), when free, to Brady & Martin, Ltd., 29 Mosley Street, Newcastle-on-Tyne.

**LADY Assistant**, qualified, wanted for mining village in Staffordshire; mixed trade and Dispensing. Full particulars to Bannister & Thatcher, Ltd., Chasetown, near Waleall.

**LADY Dispenser** required for Brondesbury district; Counter experience an advantage. Full particulars to 83/746, Office of this Paper.

**MANAGER** required for Branch, N.W. London; age about 40; good opportunity for energetic and enterprising man; references which will bear strict investigation essential. Apply, in first instance by letter, to Armatage, 6 Broadway, Cricklewood, N.W.2.

**MANAGER**, qualified, wanted for branch shop at Manchester; must be good Salesman and useful Window-dresser; also well up in Photography. Write, giving full particulars of experience, age, salary required, 72/30, Office of this Paper.

**MANAGER** required, age about 35, for Store Chemists; London suburb; must be energetic, good Window-dresser and Salesman, with knowledge of Photography. Full particulars to 83/745, Office of this Paper.

**MESSRS. COOPER, SON & CO., LTD.**, have a vacancy for a Qualified Assistant with good Dispensing and Counter experience. Reply by letter only, giving copies of recent references, stating age and salary required, to "A. J. B. C.," 80 Gloucester Road, South Kensington, S.W.

**PHARMACISTS** wanted as Managers of new branches; permanencies and good prospects. Timothy White Co., Ltd., Portsmouth.

**PHARMACIST-OPTICIAN**, with both qualifications, required very shortly for good-class business. Send full particulars as to age, experience, references, salary required, etc., to E. T. Neathercoat, Gower House, Weybridge.

**PHOTO.**—Man required to make Photographic Solutions at Photo Department; part-time preferred; season; if writing state salary. C. T. Hines, Chemist, 86 High Street, Whitechapel, E.1. (Aldgate Station, Met.).

**QUALIFIED**, gentlemanly, capable man, age 30 to 40, wanted for good-class Brighton business. Give full details, salary, and accomplishments in letter; preference to man capable of keeping small retail account books. 82/741, Office of this Paper.

**QUALIFIED Assistant** (young) for new medium-class business; London suburb, Essex. Full particulars, salary required first letter, and photo if possible (which will be returned). 70/16, Office of this Paper.

**QUALIFIED Assistant** for branch shop; able to take charge; abstainer; Window-dresser, Photography; married or single; house attached to shop vacant. Apply, giving full particulars, salary required, etc., photo (if possible), to Giles, Chemists, Newport, Mon.

**QUALIFIED Assistant**; must be a quick and accurate Dispenser, civil and obliging Counterman. Give usual particulars and state salary expected to H. E. Graham, Ltd., Chemists, 22 Burlington Street, Bolton.

**QUALIFIED Assistant** wanted immediately; Dispensing, Photography, Agriculture. Full particulars of experience, age, height, salary required, and references to Gwillim, Chemist, Brecon.

**QUALIFIED Assistant** of good address, chiefly for Dispensing department; age about 25; accustomed to high-class Dispensing. Apply, giving full particulars, age, experience, salary required (outdoors), when free, to Brady & Martin, Ltd., 29 Mosley Street, Newcastle-upon-Tyne.

**QUALIFIED Assistant** (male) wanted early in May, permanency, age about 27, by West-End Chemist; man well up in Dispensing; outdoor. 71/13, Office of this Paper.

**QUALIFIED lady Assistant**, with good Counter and Dispensing experience, capable of taking charge; knowledge of Photography an advantage, but not essential; comfortable berth; indoors if desired; 25 miles from London. Full particulars and salary required to 71/31, Office of this Paper.

**QUALIFIED Assistant**, capable of taking charge; Light Retail and N.H.I.; about 14 miles out of London. Give usual particulars, stating age, salary required, when disengaged. 71/27, Office of this Paper.

**QUALIFIED Manager**, working-class district, Salford area, for Branch Shop; Cash trade and N.H.I. Write, stating age, experience and salary required. Applications considered Thursday next; those not answered on Saturday, 24th inst., respectfully declined. 83/749, Office of this Paper.

**REGISTERED Assistant**, young and energetic, male or female, for light Retail, Dispensing and Photographic; a nice, easy berth for good Salesman, honest and temperate; abstainer preferred; wage and commission. Sutcliffe's, 17 High Street, Buxton, Derbyshire.



**SMART** unqualified Junior Assistant required in the Drug Department of Departmental Store in N.W. district; applicant must be thoroughly up-to-date, quick, and a hard worker; hours, 8.30 a.m. till 6.30 p.m.; half-day Saturday, 1 o'clock; wage £2 10s. per week, with commission (extra) and certain premiums (extra); applicant could easily make £4 a week if a keen Salesman; only young "live-wire" people need apply. Write, giving age, experience, and copies of references, to "Buyer," 83/750, Office of this Paper. (Replies not answered in 3 days respectfully declined.)

**TWO** lady Assistants, unqualified, for an up-to-date Pharmacy near London; Dispensing and Photographic an advantage, though not essential; two weeks' holiday this year not later than October. Full particulars and salary to 70/23, Office of this Paper.

**UNQUALIFIED** Assistant wanted, male, single, about 25 years of age. State full particulars as to experience, etc., and salary required to E. Quant, Landour, Torquay. Applications not answered in five days respectfully declined.

**UNQUALIFIED** required soon; must be willing and obliging; Window-dresser, knowledge of Photo. and N.H.I. Dispensing. 186 Mare Street, E.S.

**WANTED**, at once, smart, young, qualified Assistant for good-class Dispensing and Counter and some knowledge of Photographic work. Apply C. Woolens, M.P.S., 33 The Promenade, Hendon (opposite Hendon Central Tube Station).

**WANTED** for the season, qualified Assistant; must be good Dispenser and Salesman. Apply, stating age, height, experience and salary required, to Bound, Chemist, Llandrindod Wells.

**WANTED**, a qualified or unqualified Assistant as Organiser for Retail and Public Services Section (London Division); must be an energetic, keen, and convincing propagandist. Apply, by letter, enclosing copies of credentials and record in Labour Movement, to Arthur J. Gillian (General Secretary), National Drug and Chemical Union, 149 Newington Causeway, London, S.E.

**WANTED** immediately, Unqualified Junior Assistant, able to Pack and Dispense. State salary required and full particulars, by letter, to "G. H.," 30 Agnew Road, S.E.23.

**WANTED**, smart, reliable Assistant (male) for summer season, viz., May to October; outdoors; light Dispensing and Photographic. State terms and references. Gale, Chemist, Selsey-on-Sea, Sussex.

**WANTED** for summer season, Junior Assistant; good Window-dresser and Salesman essential. Experience, salary and references to Battershill, Pharmacist, Barnstaple.

**WANTED**, immediately, a fully qualified Manager, with first-class references and well up in all branches. Apply, with full particulars in first letter, to Griffith, Chemist, Wokingham.

**WANTED**, Junior Assistant (lady), unqualified, for the season; usual particulars. Clare & Hunt, Ltd., Scarborough.

**WANTED**, for season at Skegness, young qualified Chemist (lady or gentleman); smart Counter-hand, with Kodak experience. Also unqualified Assistant, male, for Notts; must be keen on Kodaks. References must bear every investigation. State full particulars, salary required, photo if possible. W. Hudson, Chemist, Skegness.

**WANTED**, qualified lady Chemist for Drug and Grocery business in Midland country village; business experience not essential; duties very light; no Sunday duty; half-holiday weekly. Please state salary, which must be small, and enclose photo if possible, to "Country," 73/3, Office of this Paper.

**WINDOW-DRESSER**.—Wanted an Assistant who is an expert Window-dresser, to be responsible for the dressing of several windows. Write, stating experience and salary required, with usual references, to 82/737, Office of this Paper.

**YOUNG** qualified lady wanted for summer months in Border town; suit recently qualified. State age, references, salary, etc. Replies to "Tweed," 71/36, Office of this Paper.

#### WHOLESALE.

**A LONDON** firm of Wholesale and Export Druggists require a Laboratory Manager (qualified); well experienced in the manufacture of Pharmaceutical Preparations, etc., and able to control staff. State experience, age, and salary required. P.C.B. 6/20, Office of this Paper.

**A NUMBER** of Travellers required by manufacturers marketing novel line of patented Rubber Goods with large possibilities; must have first-class connections with Wholesale and Retail Chemists, and at present carrying non-competitive lines; payment on commission basis. Send full details of experience, references, etc., in confidence. "R. D.," Sales Manager, St. Helens Cable & Rubber Co., Ltd., Slough.

**A VACANCY** will occur in the near future for a man to take complete charge of the Despatch Department of a firm manufacturing Toilet Articles; must be young, experienced, ambitious, and capable of shouldering responsibility. Apply (in confidence), giving full particulars, 82/740, Office of this Paper.

**A PROGRESSIVE** Lancashire House doing business with Chemists and Medical Men wishes to correspond with an enthusiastic Representative having an established connection amongst Doctors and Chemists in Yorkshire, Lancashire and the Potteries; to one who can show and prove results an interest in the firm on very easy terms will be given. Full particulars as to experience, age, present turnover, etc., to 72/28, Office of this Paper.

**CLERK** who can type required in Drug Department of Merchants' Office; 9.30 to 5.30, Saturdays 1 o'clock. State age, experience, and salary. "T. H. P.," Wm. Duff & Son, 113 Cannon Street, E.C.

**FOREMAN** wanted, Packed Goods Department Provincial Drug House. Full details experience, etc., to 83/748, Office of this Paper.

**PROPRIETORS** of Pharmaceutical Products of world-wide reputation require the services of an experienced Representative to call upon the Medical Profession in the London district. The position calls for intimate knowledge of Therapeutics and established introduction to the Medical Profession, particularly in the West-End of London. Applications are invited from Pharmacists and others with the requisite training and experience, and should state full particulars as to age, experience, etc., which will be accepted in confidence. Address "Phenos," 82/738, Office of this Paper.

**REPRESENTATIVE**.—Experienced Representative required for the Northern and South-Eastern suburbs of London; applicants must be of good address, well known to the Medical Profession, and fully competent to obtain interviews; highest credentials and personal references indispensable. Apply by letter, giving full particulars of qualifications, experience, age and districts hitherto covered. 82/739, Office of this Paper.

**REPRESENTATIVES**, calling on Wholesale and Retail Chemists and Hairdressers, wanted for the following territories: South Coast, Eastern Counties and Midlands, North Wales and Scotland, for Toilet Brushes as a side line; good commission basis. Full particulars (in strict confidence) to 83/744, Office of this Paper.

**REPRESENTATIVES** wanted, calling Chemists Lancashire, Warwickshire, Lincolnshire, Derbyshire, Leicestershire, Beattals Surgical Rubber Goods, Merthyr Tydfil.

**SALESMEN** on commission wanted, with connection amongst good-class Chemists, Hairdressers, etc., to sell novel patented Hairbrush; state district covered. Apply 67/31, Office of this Paper.

**WANTED**, by Lancashire firm of Manufacturing Chemists, an experienced Representative to call on Doctors and Chemists in Lancashire, Yorkshire, and Cheshire. The necessary qualifications are: Sound therapeutic knowledge, genuine selling abilities, and gentlemanly appearance. To a good man every encouragement and support will be given. 82/743, Office of this Paper.

**WELL-KNOWN** firm owning valuable proprietary lines, Combs, Brushes, etc., offer liberal commission to well-established Representatives in following territories: 1, Northumberland and Durham; 2, Midlands; 3, West of England; 4, South Wales. Please give full particulars in confidence. 82/727, Office of this Paper.

#### [COLONIAL, INDIAN AND FOREIGN.]

**COLONIES**.—Manager required for Dominion branch of leading British House engaged in the Manufacture and Distribution of Proprietary Pharmaceutical and Toilet Lines; executive experience, initiative and salesmanship ability essential, with practical as well as theoretical knowledge of manufacturing and chemicals; preferentially a qualified man with experience in dealing with ethical products; communications will be treated in confidence. Write 82/742, Office of this Paper.

#### SITUATIONS WANTED.

##### RETAIL.

##### [HOME.]

**A**.—PHARMACIST, experienced, desires position as Assistant in good-class Pharmacy. 72/32, Office of this Paper.

**A** N active, courteous, experienced, reliable and tactful qualified Manager, 40, desires berth; town, country or seaside; disengaged. "Chemist," 6 Old Park Road, Dover.

**A** S a Locum; disengaged; qualified; highest trade, personal and bank references; 10 years' West-End experience. "Chemist," 276 Durnsford Road, Wimolodon Park, S.W.19.

**A** S Locum or permanency; disengaged; moderate terms; excellent references. "Aspirin," "Dunmore," Alexandra Park, Rodland, Bristol.



**AS** Manager; qualified; 28; excellent references; 14 years' experience; accustomed to responsibility. Gregory, 337 Camden Road, N.7.

**ASSISTANT**; unqualified; general all-round experience; country or seaside. Jones, 10 Barclay Road, Waltham Green, Fulham.

**ASSISTANT**; 24; 6 ft.; 10 years' good varied experience, quick counter trade, Dispensing, Photography, Book-keeping; reliable, obliging, courteous; London district; excellent references; disengaged end of April. "A. H.," 70/12, Office of this Paper.

**ASSISTANT**; Dispensing and General Retail; accustomed to manage; good references; unregistered; middle-aged. "Statim," c/o Mrs. Wilson, Stow, Lincoln.

**ASSISTANT**; 21, tall, desires situation; South Coast preferred; Windows, Counter, Dispensing experience; excellent references. "Ivyholme," Silfield, Wymondham, Norfolk.

**ASSISTANT**, unqualified, young, desires change; West England preferred; Dispensing, Counter and Photography; good references. 70/38, Office of this Paper.

**ASSISTANT**, 22, referred Pharmacognosy, situation afternoons and evenings; Manchester district; Counter, Dispensing, Photographic. Hunt, 28 Reseneath Road, Urmston.

**ASSISTANT** (age 20) requires situation during summer months; N.E. Coast. Bennett, 1 Chillingham Road North, Heaton, Newcastle.

**ASSISTANT**, passed Part I, desires position for summer months; 4 years' experience; excellent references. Pettit, Church Street, Dunstable.

**ASSISTANT** or Locum; unqualified; 20 years' thorough experience; capable, energetic, trustworthy. "Bismuth," The Pharmacy, Tisbury, Wilts.

**ASSISTANT**; age 23, referred Botany, 6 years' good all-round experience, desires position for 2 or 5 months. Barnes, 2 Daltongate, Ulverston, Lancs.

**ASSISTANT** seeks situation; referred one subject Minor; tall; age 30; good experience; able to take charge; disengaged. "Statim," 72/37, Office of this Paper.

**THOROUGHLY** reliable Locum open for immediate engagement; London or country. "A. B.," 241 Seven Sisters Road, N.4.

**BURTON**, Derby, Uttoxeter District.—Assistant, referred subject, desires permanency; experienced all branches; married; at liberty short notice; excellent references, etc. State full particulars as to hours, salary, etc. 70/7, Office of this Paper.

**BUYER** and Manager, qualified, 30 years' experience, desires similar responsible position; business builder; good personality; disengaged; will accept moderate salary and good commission on profits. "Chemist," 1 Blighmont Crescent, Southampton.

**DISENGAGED**.—Qualified man (23) desires situation; 9 years' experience in first-class Dispensing, Counter and Photography. Apply "M.P.S.," 16 Meade Road, West Derby, Liverpool.

**DISENGAGED** 26th.—Pharmacist; male; experienced; Locum or permanency. "Pharmacist," 50 Fordhook Avenue, Ealing Common, W.

**DISENGAGED**.—Unqualified; assist generally; experienced Dispenser, private and N.H.I.; middle-aged; London suburbs. Jones, 69 Annesley Avenue, Hendon, N.W.9.

**DONCASTER** (20-mile radius).—Gentleman desires position as Branch Manager, Superintendent; highest references. "Pharmacist," 51 Somerset Road, Doncaster.

**ENERGETIC** young qualified Assistant, 23 years, tall and smart appearance, requires temporary or permanent position in S. Wales or South Coast; good references. 71/34, Office of this Paper.

**EXPERIENCED**; unqualified; would hook dates as Relief for holidays. 117 Munster Road, London, S.W.6.

**EXPERIENCED** lady Dispenser (Hall Certificate) desires post, temporary or permanent; Doctor or Institution preferred. 72/15, Office of this Paper.

**F. TAYLOR** now open for Locum work; reliable. 30 Agnew Road, S.E.23.

**GENTLEMAN**, qualified, Square-trained, Chemist's son, smart appearance and address, West-End and foreign experience, desires part-time evenings, London (for study), or City pharmacy, or Representative; age 30. 72/39, Office of this Paper.

**IMPROVER**, just completed three years' apprenticeship; London or local preferred. Apply "Chemist," 211 Bexley Road, North Heath, Brith.

**JUNIOR** Assistant, 21; N.H.I. Dispensing, Counter trade; good worker; knowledge of Photography and Window-dressing; good references; locally preferred. G. I. Morgan, 22 Morris Street, Newport, Mon.

**JUNIOR**, 20; tall; passed Preliminary; Dispensing, Photography, Counterman; Liverpool or district. "Rhei," 1 Merton Road, Bootle, Liverpool.

**LADY** Dispenser (Hall Certificate) requires post with Doctor; 12 years' experience; excellent references; Willesden, Acton or Ealing districts preferred; whole, part-time, or Locum. 61/6, Office of this Paper.

**LADY** Dispenser (Hall) desires post with Doctor, Chemist, or Institution; Brighton district preferred; 7 years' experience; excellent references. 70/8, Office of this Paper.

**LADY**, 24, unqualified, desires post as Assistant; London preferred; temporary or permanent. Pugh, 6 Milton Avenue, Westcliff.

**LADY** Dispenser (Hall), 22, requires post with Doctor or Chemist; London; five years' experience; excellent references. Snelling, 48 Park Road, Dulwich.

**LADY** Dispenser (Hall) requires Locum, anywhere, next few weeks; experienced Hospital and Doctors; free now. 65 Mayfair Avenue, Ilford, Essex.

**LADY** Dispenser-Book-keeper (Hall) desires Locum, Doctor or Dispensary; free May onwards; good references. Miss Pearce, 27 Conduit Road, Bedford.

**LADY** Dispenser (Hall) desires part-time post or Locum, in London. Miss Waddard, 143 Derby Buildings, Wicklow Street, W.C.1.

**LADY**, tall, 19; four years' experience, Counter and Stock; no Dispensing; W. or S.W. district. Page, 24 East Hill, Wandsworth.

**LADY** Dispenser requires post; nine years' experience; used to Counter work, with expert knowledge of Photography. Apply 72/18, Office of this Paper.

**LADY** Dispenser requires post, preferably with Doctor; 24 years' experience; good references. 71/29, Office of this Paper.

**LOCUM**; qualified; age 39; good experience; available April 26; well recommended. 72/50, Office of this Paper.

**LOCUM**—Youth, qualified, shortly disengaged; open for Locum work; excellent Dispensing experience. 68/38, Office of this Paper.

**LOCUM** or Permanency; unqualified; first-class experience in Dispensing, Counter, Prescribing, Photography, Stock, etc.; college education; abstainer; trustworthy. 70/2, Office of this Paper.

**LOCUM**; qualified; fully experienced; highest references; free May 1. "Locum," c/o W. Senior, Bourton-on-the-Water, Glos.

**LOCUM**; retired Chemist, open for season engagements; active; middle age. "H. D. F.," "Rutland," Biggin Hill, Kent.

**LOCUM**, qualified, has a few more open dates; first-class references. "Aspirin," 57 Brown Road, Walthamstow, Essex. Phone: Willesden 0266.

**LOCUM** or permanency; reliable, middle-aged man; unqualified; good experience and references. Smith, 4 Brunswick Road, Kingston Hill, Surrey.

**LOCUM**; reliable; undeniable references; abstainer; booking dates; entire charge; reasonable terms; vacant. Whitsum-tide. "Pharmacist," Goodall, Backhouse, Ltd., Chemists, Leeds.

**MALE** Dispenser requires post at once with Doctor. "Medicus," 28 Amos Hill, Penygraig, Rhondda.

**MANAGER**, 27, married, 5 ft. 7 in., competent Sales, Orders, Dispensing, Prescribing, Photo., Advertising, etc., desires change; good salary and prospects essential; wholehearted services assured; at present engaged. Full particulars, please, to "Mellifica," 67/30, Office of this Paper.

**MANAGER**, with view to early succession; South or South-East Coast. Apply "Kent," 70/180, Office of this Paper.

**MANAGER**; qualified; M.P.S.; age 39; height, 5 ft. 9 in.; good experience all branches; splendid references. 72/5, Office of this Paper.

**MANAGER**, Qualified, holding good position, desires change; Kent or Sussex preferred. Apply "Optimus," 70/18, Office of this Paper.

**MANAGER**, qualified, seeks progressive post in May or June; West Riding preferred, but not essential; energetic, tall; high-class experience; splendid references. Reply 72/31, Office of this Paper.

**M.P.S.**, LADY, 24, 6 years' good Dispensing and Retail experience, requires position immediately. 68/40, Office of this Paper.

**M.P.S.**, 25, tall, experienced, desiring change, seeks position as Manager or Senior Assistant. 68/33, Office of this Paper.

**M.P.S.**, age 26; competent Dispenser, good Counterman, experienced in Stock-keeping, Window-dressing and Photography; not afraid of work. E. Walbridge, 93 Darchester Road, Weymouth.

**PHARMACIST**; 37, as Manager; London only; first-class experience, Photographic, etc. "Pharmacist," 4 St. Andrews Mansions, Lower Clapton Road, E.5.



**QUALIFIED**, 30, slight war disablement, desires post, London, as Manager or Assistant. "M.P.S.," 160 Old Oak Road, East Acton, W.3.

**QUALIFIED** (30); Manager, Senior, Locum; 13 years' London, provincial experience; married; Photography; good all-round experience; references; abstainer; used to quick N.H.I., cash business. "Aspirin," 19 Millais Road, Enfield.

**QUALIFIED**, first-class experience, seeks engagement as Manager; London district. Charles Adam, 31 The Vineyard, Richmond, Surrey.

**QUALIFIED**, 30; single; 12 years' general experience (five as Manager), including Photographic; excellent references; Isle of Wight or within easy reach of. "Chemist," 38 King Street, Maidenhead.

**QUALIFIED**, 25, previous London experience, desires situation same; Dispensing, Retail, Photography. Howells, The Pharmacy, St. Clears, S. Wales.

**QUALIFIED**, 23, tall, capable, experienced, desires post in or near London, or South of England; disengaged. 72/22, Office of this Paper.

**QUALIFIED** seeks position in good-class Pharmacy as Senior or Manager; good experience; capable and energetic. 72/15, Office of this Paper.

**TRUSTWORTHY** Assistant, 27, seeks position in London; gentlemanly appearance; active; good Dispensing and Counter experience; referred subject in Part I; disengaged; well recommended. "A. R.," 11 Minden Road, Lowestoft.

**UNQUALIFIED**; age 35 years; married; good Counter hand, reliable Dispenser and thorough knowledge of Photographic. 72/35, Office of this Paper.

**YOUNG** lady, student, seeks post, Birmingham area, with Chemist; Dispensing chiefly. Price, 159 Church Road, Erdington, Birmingham.

**YOUNG** lady, Qualified; 4 years' experience; used to quick trade; Counter work preferred. Apply "Aspirin," 41 High Street, West Norwood, London, S.E.27.

### WHOLESALE.

**ADVERTISER**, extensive connection Chemists, Hairdressers, London territory, seeks engagement; only leading firms entertained. P.C.B. 9/23, Office of this Paper.

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**COMMISSION** Traveller wants Agencies, Drugs, Sundries, Perfume, Photo.; City office; telephone; commission and share expenses. "Contremal," 84 Arlingford Road, S.W.2.

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**GENTLEMAN** (qualified), well known in the trade, desires position about August with house of standing as Buyer, Departmental Manager, or Representative; sound commercial training and integrity. Reply "T. R. M.," 66/1, Office of this Paper.

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**PILL** Coater desires change; large or small quantities. Apply "Pearl," 5 Beck Road, Hackney, E.

**QUALIFIED**, 21, desires Analytical or Wholesale post, with facilities (evenings) for higher qualifications. "O. C. W.," 166 Shepherd's Bush Road.

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# Colour

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